

STA2122 Syllabus

Course Information

- ⑩ **Course Hours:** Online
- ⑩ **Course Meeting Location:** Online
- ⑩ **Credit Hours:** 3 hours
- ⑩ **Prerequisites:** C- or better for MAC1105
- ⑩ **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.

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.

Course Instructor

Hernán Pinto Zambrano

Instructor

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Office: Statistics / OSB446

Office Hours: this is an online class, email is the primary method of communication. Emails will be responded to within 12 hours.

Course Materials

The recommended textbook for this class is Introduction to the practice of Statistics, ninth edition by Moore, McCabe & Craig from W.H. Freeman. You will need to read each set of completely filled in class notes carefully and read the modules webpage before you attempt the section quiz/LSQA that follows.

I will be posting them as the class proceed.

A graphic calculator is required:

If you do not have a calculator, check with your friends and family before buying one. I know they are expensive, so before getting a new one, check at any pawn shop to see if you can get a calculator at a cheaper price.

- ⑩ exas Instruments: TI-83 Plus, any of the TI-84 Plus family, and TI-Nspire family.
- ⑩ Casio: fx-9750 GII, fx-9860GII, fx-9750GIIBU, fx-9750GIIPK, and fx-CG10 PRIZM. (I have not seen or experience any fx-CG50 PRIZ, and fx-CG500 PRIZM.)
- ⑩ I will be posting videos in Canvas modules for you to see and learn to use the calculator.

Learning 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.
The above two competencies will be assessed in the Liberal Studies Quantitative Assessment (LSQA) 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.

Student Responsibilities

- ⑩ Students should log on to Canvas at least every other day to check for course updates.
- ⑩ Students are expected to keep up with the class, engage with the course material, and submit assignments by the due dates.
- ⑩ Assignments, quizzes, and exams are expected to be products of individual students per the FSU Academic Honor Policy. Students should not discuss any of the questions with each other before or during the actual assignments, activities, quizzes, or exams without instructor approval.
- ⑩ To receive maximum points for questions, students need to follow the instructions carefully, follow word limits as instructed, and use spell and grammar checking.
- ⑩ To be successful in this course, students need to complete all required assignments and tests.

Online Test and Examinations

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.

Note on Proctored Testing Fees – please include the following information in your syllabus

1. Post all requirements for proctored testing in the course syllabus, including whether or not a web-based, remote proctor service (FSU's current agreement is with Examity®) will be allowed.
2. Encourage students to estimate the cost of their proctored exams at the start of the course. Students can use the Proctor Selection application on the ODL website to locate an approved, nearby testing center and then follow up with that facility to find out its current testing fees. Keep in mind that some facilities charge by the hour, and students will need to know the length of an exam to estimate their costs.
3. Because they are considered an educationally related expense, students may use financial aid toward their proctored testing fees, just as they would toward books and supplies.

Grading Policy

The class consist on 6 sets of homework, 15 points each, five quizzes 20 points each, and, mandatory, LSQA which is 20 pints each.

Homework (15 points each) Similar problems from the textbook, other I have created. There will be six sets them, they will stay open until the end of the semester.

LSQA (20 points) It will be taken at the end of the class at a testing center or using Examity (online proctoring system). You are allowed ONE self written double sided 8.5 inches by 11 inches note sheet. It is just like a regular quiz. You can only take it once.

Unit Quizzes (20 points each) The quizzes will open on a Wednesday, except the first one which opens on a Thursday. and they will be closed on a Sunday by 10 pm Eastern Daylight Saving Time. You can take it two times, and the highest score will be kept. (60 minutes)

Final Exam (40 points) Final exam will be cumulative. It will be in Canvas, and you have the opportunity of taking it once. You will take this at at Testing Center or using Examity (online proctoring system), with the LSQA. You will be allowed to have TWO self written double sided 8.5 inches by 11 inches note sheets. (120 minutes)

Homework	15 points x 6	90 points
Quizzes	20 points x 5	100 points
LSQA	20 points x 1	20 points
Final Exam	40 points x 1	40 points
	Total	250 points

The following grading standards will be used in this class :

Grading Scheme Breakdown

Grade	Range
A	[230, 250]
A-	[224, 230]
B+	[214, 223]
B	[206, 213]

B-	[198, 205]
C+	[188, 197]
C	[181, 187]
C-	[173, 180]
D	[162, 172]
F	[0, 162]

For the majority, points will be awarded as whole numbers. Extra credit will be presented during homework, quizzes, and exam, and might be decimal points awarded to some of the questions. They will be carried out until the end and will be rounded up. **No specific extra-credit-activities** will be granted **during** the course of the class or **after the Final Exam**.

Grade Appeal Policy

During the course of the term, if you believe that a quiz, homework was improperly graded by me, I must receive your email within one week after the grades for that evaluation are posted on the course website.

Proctored Exams

Students Taking Proctored Distance Learning Exams

Information for taking proctored distance learning exams can be found online in the **distance learning section** of the FSU Testing Center website. All distance learning students requiring proctored exams must select a proctor by following the steps to complete the **Online Proctor Designation Form**. This must be *completed within the first two weeks of the semester or within the first week of a summer course (due to the shorter duration of the course)*. **Assessment and Testing reserves the right to reject any proctor submission after the deadline.**

In addition to designating a proctor using the Online Proctor Designation Form, any student who selects the FSU Testing Center must make an appointment on **RegisterBlast (Links to an external site.)Links to an external site.** for each exam. Students who need assistance with RegisterBlast can email regblast@campus.fsu.edu.

Any student who wants to test at a site other than the ones listed will need to contact the **FSU Testing Center** for further assistance. Students can call 850-644-8696 or email testing@campus.fsu.edu.

Many test sites require a fee for proctoring services. Students are responsible for paying any fees that may be required by their approved proctor or testing center. Students are advised to determine in advance if there is a fee, what it is, and when it must be paid. Testing centers often require pre-payment, and the receipt for payment may serve as an entry ticket to the proctored exam session.

Please refer to **Proctoring Instructions in the course site** for complete information on student responsibilities and protocols.

Sexual Misconduct & 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, the University Counseling Center, the Employee Assistance Program, or University Health Services.

Technology Requirements

Course content is accessible through Canvas. Students will need to be able to view videos, write and upload assignments, post to discussion boards, and take assessments. Students should have access to high-speed internet and updated software. Mobile devices may be used to view course content, upload assignments, and take assessments as determined by the instructor. To view the most current technology requirements, visit the FSU Canvas support site.

Canvas Support

Need help with Canvas? Contact FSU Canvas Support:

Email: canvas@fsu.edu

Phone: (850) 644-8004

Website: support.canvas.fsu.edu

Hours: 8am to 5pm, Monday - Friday

Course Policies

Communications/Netiquette

For Discussions:

- ⑩ Please use polite, respectful behavior when posting your responses to prompts in the Discussion Boards.
- ⑩ Be mindful of how you express your emotions and humor, and be sensitive to cultural and ability differences of your online peers.
- ⑩ Keep postings to the point, and make sure your comments are relevant to the topic of discussion.
- ⑩ Avoid messages such as, "Wow," "Way to go," or "Ditto" and aim for comments that validate other members' ideas through careful explanation of why.
- ⑩ When replying, give a short description in the subject line of what you are replying to, and use correct punctuation and spelling throughout your post.

For Email Communication:

- ⑩ For email, please respond to your instructor's and peers' messages within a 24-hour period.
- ⑩ Use a brief description in the subject line that outlines the topic of discussion.
- ⑩ Avoid using slang or profane words.

- ⑩ Use your instructor's correct title he or she prefers for communication.
- ⑩ Avoid using emoticons, such as smiley faces, and maintain a professional demeanor.
- ⑩ Sign your email messages using your full name.
- ⑩ AVOID USING ALL CAPS. This makes the message visually difficult to read and is perceived by the reader as "shouting."
- ⑩ Use correct spelling, grammar, and punctuation, just as you would for any communication.
- ⑩ Ask yourself whether you would be comfortable if someone other than the intended receiver were to read your message. Remember, email is not a completely secure form of communication.
- ⑩ Refrain from "flaming," which is expressing a strongly held opinion without tact or regard for others. Don't assume that recipients will know the intent of the message (e.g., "just kidding"). It reads differently when it's in print (electronic or not).
- ⑩ Report any inappropriate communication considered to be of a serious nature to your instructor, as it may be a violation of University policy.
- ⑩ Treat others with respect by making messages clear and succinct.

Participation & Lateness 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.

Policy for Missed Quizzes & LSQA

There will be no make up for these Unit Quizzes, unless documentation is provided.

Policy for Homework

Homework will need to be turned in by Canvas. There will be questions in the note packages. Use these questions to study and review material. Create self made note cards to study, and quiz yourself.

Policy on Responding to Students

- ⑩ Email responses typically within 12 hours.
- ⑩ Graded assignments typically returned within 1 week after due date.

University Policies

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." (For more details see the FSU Academic Honor Policy and procedures for addressing alleged violations.)

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 (*Tallahassee Campus*)

874 Traditions Way
108 Student Services Building
Florida State University
Tallahassee, FL 32306-4167
(850) 644-9566 (voice)
(850) 644-8504 (TDD)
Email: sdrc@admin.fsu.edu

Students Disability Resource Center (*Panama City Campus*)

Dr. Kimberly Leath
Office of Student Affairs
2nd Floor Barron Building (Room 215)
Email: kleath@fsu.edu or sds@pc.fsu.edu
(850) 770-2172 (office)
(866) 693-7872 (toll free)

Free Tutoring from FSU (*Tallahassee Campus*)

On-campus tutoring and writing assistance are available for many courses at Florida State University. For more information, visit the Academic Center for Excellence (ACE) Tutoring Services' comprehensive list of on-campus tutoring options - see the Academic Center for Excellence (ACE) Tutoring Services' website or contact tutor@fsu.edu. High-quality tutoring is available by appointment and on a walk-in basis. These services are offered by tutors trained to encourage the highest level of individual academic success while upholding personal academic integrity.

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."