Read It : STA 4502 Fall 2020 Course Homepage

Instructor:

John Seppala, Lecturer and Actuarial Science Coordinator

Department of Statistics, University of Florida

Accessibility score: Perfect Click to improve

Instructor email:

jseppala@ufl.edu

Instructor office hours:

Monday and Wednesday 9:00 am to 10:00 am

Tuesday and Thursday 10:00 am to 11:00 am

Teaching Assistant Information:

Heejun Shin

hshin1@ufl.edu

Office Hours: TBA

Course information:

This course is an asynchronous class, with three prerecorded video lectures per week.

Credit hours: 3. Contact hours: 3. Prerequisite: STA 2023 or STA 3032 or STA 4210 or STA 4322.

Course description:

A study of basic concepts in distribution-free statistics with applications. Topics include one-sample and two-sample interval estimation and hypothesis testing for proportions and medians, analysis of variance, association, and linear and multiple regression.

Course learning goals:

After successful completion of the course, students will be able to draw inferences about the following populations and their parameters:

-
  - one proportion and two proportions (dependent and independent samples)
  - one median and two medians (dependent and independent samples)
  - distribution symmetry
  - two variances
  - distribution functions
  - three or more medians (independent and dependent samples)
  - bivariate association and correlation
  - regression slope, intercept, and output (simple linear and multiple)

Welcome message:

Students,

Hello, and welcome to Nonparametric Methods! I am excited to be teaching this course, and I hope that you are excited to be taking it! The course is a survey of a wide variety of alternate inferential procedures that do not require normal distribution assumptions or large sample sizes. In order to succeed in the course, you will need to vigorously attack the material, diligently keep up with and complete all assignments, properly apply and execute dozens of statistical techniques, and thoroughly prepare for the comprehensive exam at the end of the semester. Upon successful completion of the course, you will have mastered the concepts and calculations of basic nonparametric statistics.

Please **scroll through** the information below to familiarize yourself with the basic course structure in Canvas. Then **complete** the rest of Pre-Module 0 to begin the course. I hope you will find this course interesting and useful, and that your experience this semester will be challenging and rewarding!

Grace and peace,

John Seppala

Modules:

The course is organized into 9 content modules. Each content module contains the following:

- Lecture videos (multimedia audio/visual/screen; 2 to 5 videos per module)
- Lecture notes (handwritten; 2 to 6 pages per lecture video)
- Course notes (typed; 1 to 3 pages per module)
- Homework assignments (5 to 10 problems per assignment; 1 or 2 assignments per module)
- Discussion boards (optional participation; 1 per module)

List of Graded Work:

The following items are components of the overall course grade:

- Course introduction quiz (online in Canvas), due Sun Sep 6
- 33 prerecorded video lectures (viewed online in Canvas using Mediasite), due each Mon/Wed/Fri
- 11 weekly homework assignments (submitted online in Canvas), due each Sunday
- Comprehensive exam (online in Canvas using Honorlock), Tue Dec 1, 8:30 am to 10:40 am

Next

This page contains information about various aspects of STA 4502.

Section 1: Basic Course Communication Information

Name and Title:	John Seppala, Lecturer and Actuarial Science Coordinator	Heejun Shin, Teaching Assistant
Office Location:	N/A Fall 2020	N/A Fall 2020
Phone:	N/A Fall 2020	N/A Fall 2020
Email:	jseppala@ufl.edu	hshin1@ufl.edu
Preferred form of Contact:	email	email

Open Office Hours:	MT 10:00 am to 11:00 am WR 9:00 am to 10:00 pm	MWF 10:30 am to 11:50 am
Office Hours Link:	https://ufl.zoom.us/j/5032820010	https://ufl.zoom.us/j/4814950582

Scope: Collectively, the instructor and the TA are a resource to help students succeed in the course. The instructor is the primary point of contact for administrative matters and the secondary contact for instructional matters. The TA is the primary point of contact for instructional matters and the secondary point of contact for administrative matters.

Communication: The instructor and the TA will each hold open office hours through ZOOM. In addition, they may be contacted by email, Canvas messaging, or Canvas discussion boards. Return correspondence will generally be made within 2 business days Monday through Friday, 8:00 am to 5:00 pm.

Conduct: Please follow the UF Netiquette Guide for Online Courses.

Section 2: Required and Recommended Materials for this Course

- Textbooks: The required textbook for the course is:
  - Nonparametric Statistical Methods (3e), by Hollander and Wolfe
- Required Calculators: Students will need a scientific and/or graphing calculator to succeed in the course. Calculators can be purchased at walmart.com, target.com, bestbuy.com, officemax.com, and epsstore.ti.com.
- Required Technology: Students will need to use ZOOM, Adobe Reader, Minitab, R, Honorlock online proctoring, a webcam, and a reliable high speed Ethernet connection for various elements of the course.
- Course Fees: N/A

Section 3: Grading Policies and Grading Scale

- Late Videos: **NO** credit will be given for any reason for lecture videos watched after their due dates. It is highly recommended that students watch all lecture videos at least 48 hours before their due dates.
- Late Homework: Late homework is **NOT** accepted for any reason. At the end of the semester, the lowest homework score will be replaced by the second-lowest score. It is highly recommended that students complete and submit all homework assignments at least 48 hours before their due dates.
- Make-up Exams: All students are required to take the comprehensive exam on Tuesday, December 1, from 8:30 am to 10:40 am. Make-up exams will **ONLY** be given for *documented cases of emergencies and extreme illnesses*. Proper notification should be given to the instructor as soon as possible. Any approved make-up exams will be given online on Tuesday, December 15, from 7:30 am to 9:30 am. No credit is given for an exam that is not taken.

- Grade FAQs:
  - Do you give extra credit? No.
  - Can I redo an assignment/exam for a higher grade? No.
  - Will you curve the assignments or exam? No.
  - Can you give me a higher final grade than I earned? No.
- Grade Feedback: Grades will generally post to the Canvas gradebook within one week of the assignment due date for all graded work (Introductory Quiz, Video Lectures, Homework, and Comprehensive Exam).
- Grade Calculation: The following assignments (worth 1000 points total) will count towards the final course grade:
  - Introductory Quiz (12 questions x 5 points each = 60 points)
  - Lecture Videos (33 videos x 10 points each = 330 points)
  - Homework (11 assignments x 30 points each = 330 points)
  - Comprehensive Exam (28 questions x 10 points each = 280 points)
- Grading Scale: The following grading scale (in points) will be used for the course:
  - A = 900 to 1000
  - A- = 880 to 899.5
  - B+ = 860 to 879.5
  - B = 800 to 859.5
  - B- = 780 to 799.5
  - C+ = 760 to 779.5
  - C = 680 to 759.5
  - D = 600 to 679.5
  - E = 0 to 599.5
- Compliance: Grading in this class is consistent with UF Grading Policies.

Section 4: UF Policies Shaping This Course

Contact Hours:

"Contact Hours" refers to the hours per week in which students are in contact with the instructor, excluding office hours or other voluntary contact. The number of contact hours in this course (3) equals the number of credits offered for the course (3).

Workload:

As a Carnegie I, research-intensive university, UF is required by federal law to assign at least two hours of work outside of class for each contact hour. Work done in these hours may include reading/viewing assigned material and doing explicitly assigned individual or group work, as well as reviewing notes from class, synthesizing information in advance of exams or papers, and other self-determined study tasks.

Accommodation for Students with Disabilities:

Students with disabilities who experience learning barriers should connect with the Disability Resource Center to initiate the process of requesting accommodations. This class supports the needs of different learners. It is important for students to **SUBMIT** their accommodation letters

to the instructor and **REVIEW** their access needs with the instructor at the very beginning of the semester.

Course Evaluations:

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing end-of-semester course evaluations online via GatorEvals, which provides guidance on how to give feedback in a professional and respectful manner. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via the evaluation system. Summaries of course evaluation results are available to students at the public results website. Students will have at least one additional opportunity to provide anonymous feedback during the semester through GatorEvals Midterm Evaluations and/or another mechanism.

Course Recording:

Class and other open/group sessions may be aurally and/or visually recorded for students in the class to refer back to and for use of enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate verbally are agreeing to have their voices recorded. If you are unwilling to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.

Section 5: Additional Course Policies and Information

Honor Code

UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code." Students are required to adhere to the Honor Code in all aspects of the course. On all work submitted for credit in the course, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.”

The Honor Code specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, students are obligated to report any condition that facilitates academic misconduct to appropriate personnel. Any student found in violation of the Honor Code will receive a final course grade of "E" and may be subject to additional disciplinary action by the University. If you have any questions or concerns, please consult with the instructor or TAs in this class.

University Police

The University Police are together for a safe campus.

Phone (non-emergencies): (352) 392-1111

Phone (emergencies): 9-1-1

Email: https://police.ufl.edu/contact/contact-upd/

Career Connections Center

The Career Connections Center connects job seekers with employers and offers guidance to enrich your collegiate experience and prepare you for life after graduation.

Phone: (352) 392-1601

Email: UFCareerCenter@ufsa.ufl.edu

Counseling and Wellness Center

The Counseling and Wellness Center provides counseling and support as well as crisis and wellness services including a variety of workshops throughout the semester.

Phone: (352) 392-1575

Dean of Students Office

The Dean of Students Office provides a variety of services to students and families, including Field and Fork (UF's food pantry) and New Student and Family programs.

Phone: (352) 392-1261

Disability Resource Center

The Disability Resource Center helps to provide an accessible learning environment for all students by providing support services and facilitating accommodations, which may vary from course to course. After registering and meeting with the DRC, students will receive a current accommodation letter that **MUST** be reviewed with the instructor in order for accommodations to be implemented in the course. Students should follow this procedure at the very beginning of the semester.

Multicultural and Diversity Affairs

Multicultural and Diversity Affairs provides a wide range of services, educational opportunities, learning, support, outreach, activities, and engagement for students.

Phone: (352) 294-7850

Office of Student Veteran Services

The Office of Student Veteran Services assists student military veterans with access to benefits.

Phone: (352) 294-2948

Email: vacounselor@ufl.edu

ONE.UF

ONE.UF is the home of all the student self-service applications, including access to:

- Advising
- Bursar (352-392-0181)
- Financial Aid (352-392-1275)
- Registrar (352-392-1374)

Official Sources of Rules and Regulations

The official sources of rules and regulations for UF students are the Undergraduate Catalog and Graduate Catalog. Quick links to other information have also been provided below.

- Student Handbook
- Student Responsibilities, including academic honesty and student conduct code
- e-Learning Supported Services Policies includes links to relevant policies including Acceptable Use, Privacy, and many more
- Accessibility, including the Electronic Information Technology Accessibility Policy and ADA Compliance
- Student Computing Requirements, including minimum and recommended technology requirements and competencies

Read It : STA 4502 Fall 2020 List of Graded Work

Course Introduction Quiz

- 12 questions x 5 points each = 60 points total
- overview of course policies from Pre-Module 0
- 30 minute time limit
- take and submit in Canvas

Lecture Videos

- 33 videos x 10 points each = 330 points total
- three videos per week throughout the semester
- approximately 30 to 60 minutes for each video
- view in Canvas using Mediasite

Homework

- 11 assignments x 30 points each = 330 points total
- one assignment per week throughout the semester
- approximately 5 to 10 questions for each assignment
- approximately 3 to 6 hours for each assignment
- upload and submit in Canvas

Comprehensive Exam

- 28 multiple-choice questions x 10 points each = 280 points total
- covers all course content from Module A to Module J
- 2 hour time limit
- take and submit in Canvas using Honorlock proctoring service

PreviousNext

STA 4502 Fall 2020 Tentative Course Schedule:

Week of	Lessons	Assignments
Aug 31	0 = Course Introduction	Intro Quiz due Sun Sep 6
Sep 7	A1 = One Proportion Testing A2 = One Proportion Estimation A3 = Two Dependent Proportion Inference	HW A due Sun Sep 13
Sep 14	A4 = Two Independent Proportion Inference A5 = Two Proportion Odds Ratio Inference	HW AA due Sun Sep 20

	B1 = Two Dependent Medians Testing	
Sep 21	B2 = Two Dependent Medians Estimation B3 = Two Dependent Medians Symmetric Testing B4 = Two Dependent Medians Symmetric Estimation	HW B due Sun Sep 27
Sep 28	C1 = One Median Inference C2 = One Median Symmetric Inference C3 = Distribution Symmetry Testing	HW C due Sun Oct 4
Oct 5	D1 = Two Independent Medians Testing D2 = Two Independent Medians Estimation D3 = Two Independent Medians Symmetric Inference	HW D due Sun Oct 11
Oct 12	E1 = Two Variances Testing E2 = Joint Location and Scale Testing E3 = Distribution Difference Testing	HW E due Sun Oct 18
Oct 19	F1 = ANOVA Completely Randomized Design F2 = ANOVA CRD Multiple Comparison Inference G1 = ANOVA Randomized Block Design	HW F due Sun Oct 25
Oct 26	G2 = ANOVA RBD Multiple Comparison Inference G3 = ANOVA Two-Factor Design with Interaction G4 = ANOVA 2FD Multiple Comparison Inference	HW G due Sun Nov 1
Nov 2	H1 = Bivariate Association Testing H2 = Bivariate Association Estimation H3 = Bivariate Association Estimation Bootstrapping	HW H due Sun Nov 8
Nov 9	H4 = Bivariate Correlation Testing J1 = Simple Linear Regression Slope Testing J2 = Simple Linear Regression Slope Estimation	HW HJ due Sun Nov 15
Nov 16	J3 = SLR Intercept Inference and Output Prediction J4 = Multiple Regression with a Categorical Variable J5 = Multiple Regression with Quantitative Variables	HW J due Sun Nov 22
Nov 23	---	Thanksgiving
Nov 30	Comprehensive Exam	Tue Dec 1, 8:30a-10:30a