

Read It : STA 3032 Fall 2021

Course Homepage

Instructor:

John Seppala, Lecturer and Actuarial Science Coordinator

Department of Statistics, University of Florida

jseppala@ufl.edu

116A Griffin-Floyd Hall

352-273-2971

Office Hours: Mon and Wed 1:15 pm to 2:15 pm, Tue and Thu 12:15 pm to 1:15 pm

Teaching Assistants:

Jaewoong Joo, jaewoongjoo@ufl.edu, FLO 234, Mon and Fri 1:00 pm to 5:00 pm

Marteka Richmond, mrichmond1@ufl.edu, FLO 234, Tue 8:00 am to 12:00 and 3:00 pm to 4:00 pm, Thu 2:00 pm to 5:00 pm

Lei Yang, yang.lei@ufl.edu, FLO 100, Wed 2:00 pm to 6:00 pm, Thu 8:00 am to 12:00 pm

Course format:

This course meets in person on Mon Wed Fri. Course number 11782 meets from 9:35 am to 10:25 am in WEIL 270, and course number 11783 meets from 11:45 am to 12:35 pm in CSE A101.

Credit hours: 3. Contact hours: 3. Prerequisite: MAC 2311.

Course description:

A study of basic concepts in probability and statistics with engineering applications. Topics include descriptive statistics, probability, random variables, special discrete and continuous distributions, sampling, interval estimation, hypothesis testing, analysis of variance, and linear and multiple regression.

Course learning goals:

After successful completion of the course, students will be able to:

- - describe data sets visually and numerically
 - calculate probabilities of events
 - calculate probabilities, means, and variances for random variables
 - calculate probabilities, means, and variances for special distributions
 - make inferences using confidence intervals
 - make inferences using hypothesis tests
 - analyze data using ANOVA techniques
 - analyze data using regression techniques

Welcome message:

Students,

Hello, and welcome to Engineering Statistics! I am glad that you have chosen to take the course this semester. You are about to experience a fast-paced, comprehensive treatment of introductory concepts of probability and statistics. In order to succeed in the course, you will need to vigorously attack the material, diligently keep up with and complete all assignments accurately and on time, properly apply a host of statistical formulas and procedures, and thoroughly prepare for the three semester exams. Upon successful completion of the course, you will have mastered the concepts and calculations of probability and statistics and should be well prepared to analyze data using a wide variety of techniques.

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:

- Two to six lessons
- Course notes (typed; 1 to 3 pages per lesson)

- Homework assignments (4 to 8 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 and accompanying material (online in Canvas), due Sun Aug 29
- 11 weekly homework assignments (submitted online in Pearson My Lab and Mastering), due each Tuesday at 11:59 pm
- 3 in-class written exams, Wed Sep 29, Wed Oct 27, and Wed Dec 8, during class time

Note: Elements of the syllabus are subject to amendment by the instructor. Students will be given prompt notification of any changes.

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Course Overview and Policies

Page

This page contains information about various aspects of STA 3032.

Section 1: Basic Course Communication Information

Name and Title:	John Seppala, Lecturer and Actuarial Science Coordinator	Jaewoong Joo, TA Marteka Richmond, TA Lei Yang, TA
Office Location:	116A Griffin-Floyd Hall	JJ: 234 Griffin-Floyd Hall

		MR: 234 Griffin-Floyd Hall LY: 100 Griffin-Floyd Hall
Phone:	229-273-2971	N/A
Email:	jseppala@ufl.edu	JJ: jaewoongjoo@ufl.edu MR: mrichmond1@ufl.edu LY: yang.lei@ufl.edu
Preferred form of Contact:	email	email
Open Office Hours:	Mon Wed 1:15 pm to 2:15 pm Tue Thu 12:15 pm to 1:15 pm	JJ: Mon 1:00 pm to 5:00 pm, Fri 1:00 pm to 5:00 pm MR: Tue 8:00 am to 12:00 pm and 3:00 pm to 5:00 pm LY: Wed 2:00 pm to 6:00 pm, Thu 8:00 am to 12:00 pm

Scope: Collectively, the instructor and the TAs are available to help students succeed in the course. The instructor is the primary point of contact for administrative matters and the TAs are the primary points of contact for instructional matters.

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

Conduct: Please follow the [UF Netiquette Guide for Online Courses \(Links to an external site.\)](#).

Section 2: Required and Recommended Materials for this Course

- **Textbooks:** The following textbook is only available through UF All Access and is required for the course:
 - Probability and Statistics for Engineers and Scientists (9e), by Walpole, Myers, Myers, and Ye
 -
- **Calculators:** A graphing or scientific calculator is recommended for the course. Calculators can be purchased at walmart.com (Links to an external site.), target.com (Links to an external site.), bestbuy.com (Links to an external site.), officemax.com (Links to an external site.), or epsstore.ti.com (Links to an external site.).
- **Required Technology:** Students will need to use Canvas, Adobe Reader, Pearson My Lab and Mastering, and a reliable high speed Ethernet connection for various elements of the course.
- **Course Fees:** Listed on UF website

Section 3: Grading Policies and Grading Scale

- **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 24 hours before their due dates whenever possible.
- **Make-up Exams:** All students are required to take the three in-class exams on Wed Sep 29, Wed Oct 27, and Wed Dec 8 during class time. 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 at the end of the semester according to the published final exam schedule for the course. 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 exams? 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, Homework, and Exams).
- **Grade Calculation:** The following assignments (worth 1000 points total) will count towards the final course grade:
 - Introductory Quiz (70 points)
 - Homework (11 assignments x 30 points each = 330 points)
 - Exams (3 exams x 200 points each = 600 points)
- **Grading Scale:** The following grading scale (in points) will be used for the course:
 - A = 900 to 1000
 - A- = 880 to 899.9
 - B+ = 860 to 879.9
 - B = 800 to 859.9
 - B- = 780 to 799.9
 - C+ = 760 to 779.9
 - C = 680 to 759.9
 - D = 600 to 679.9
 - E = 0 to 599.9
- **Compliance:** Grading in this class is consistent with [UF Grading Policies \(Links to an external site.\)](#).

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 \(Links to an external site.\)](#). 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 \(Links to an external site.\)](#). 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 \(Links to an external site.\)](#). Summaries of course evaluation results are available to students at the [public results website \(Links to an external site.\)](#). 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:

At the discretion of the instructor, 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

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 \(Links to an external site.\)](#)." 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.

Additional UF Policies and Resources

University Police

The [University Police \(Links to an external site.\)](#) are together for a safe campus. Call 392-1111 (or 9-1-1 for emergencies).

Career Connections Center

The [Career Connections Center \(Links to an external site.\)](#) (352-392-1601 | CareerCenterMarketing@ufsa.ufl.edu) connects job seekers with employers and offers guidance to enrich your collegiate experience and prepare you for life after graduation.

Counseling and Wellness Center

The [Counseling and Wellness Center \(Links to an external site.\)](#) (352-392-1575) provides counseling and support as well as crisis and wellness services including a [variety of workshops \(Links to an external site.\)](#) throughout the semester.

Dean of Students Office

The [Dean of Students Office \(Links to an external site.\)](#) (352-392-1261) provides a variety of services to students and families, including [Field and Fork \(Links to an external site.\)](#) (UF's food pantry) and [New Student and Family programs \(Links to an external site.\)](#).

Disability Resource Center

The [Disability Resource Center \(Links to an external site.\)](#) (DRCaccessUF@ufsa.ufl.edu | 352-392-8565) 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 \(Links to an external site.\)](#) (352-294-7850) provides a wide range of services, educational opportunities, learning, support, outreach, activities, and engagement for students.

Office of Student Veteran Services

The [Office of Student Veteran Services \(Links to an external site.\)](#) (352-294-2948 | vacounselor@ufl.edu) assists student military veterans with access to benefits.

ONE.UF

[ONE.UF \(Links to an external site.\)](#) is the home of all the student self-service applications, including access to:

- [Advising \(Links to an external site.\)](#)
- [Bursar \(Links to an external site.\)](#) (352-392-0181)
- [Financial Aid \(Links to an external site.\)](#) (352-392-1275)
- [Registrar \(Links to an external site.\)](#) (352-392-1374)

Official Sources of Rules and Regulations

The official sources of rules and regulations for UF students are the [Undergraduate Catalog \(Links to an external site.\)](#) and [Graduate Catalog \(Links to an external site.\)](#). Quick links to other information have also been provided below.

- [Student Handbook \(Links to an external site.\)](#)
- [Student Responsibilities \(Links to an external site.\)](#), including academic honesty and student conduct code
- [e-Learning Supported Services Policies \(Links to an external site.\)](#) includes links to relevant policies including Acceptable Use, Privacy, and many more
- [Accessibility \(Links to an external site.\)](#), including the Electronic Information Technology Accessibility Policy and ADA Compliance
- [Student Computing Requirements \(Links to an external site.\)](#), including minimum and recommended technology requirements and competencies

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Course Introduction Quiz

- 10 questions, 70 points total
- overview of course policies from Pre-Module 0
- 30 minute time limit
- take and submit in Canvas

Homework

- 11 assignments x 30 points each = 330 points total
- one assignment per week throughout the semester
- approximately 4 to 8 questions for each assignment

- approximately 2 to 4 hours for each assignment
- access and submit in Pearson My Lab and Mastering within Canvas

Exams

- 3 in-class written exams x 200 points each = 600 points total
- multiple-choice questions