

(6) Dashboard

Courses

Calenda 128 Inbox

History

0

Commons

10

Help

Piazza Pages

Spring 2021

<u>Announcements</u>

Assignments

Discussions

Grades

Syllabus

Modules

Files

Home

GaTech Roster

Outcomes Quizzes

People **Collaborations** BigBlueButton

Microsoft Teams meetings Zoom

Ed Discussion

Rubrics

Accessibility Report Settings

Course Syllabus At

Statistics and Applications

ISyE 3770 Syllabus and Course Outline

Course Outcomes: Students should be able to:

Instructor: Dr. Tuba Ketenci; email: tuba.ketenci@isye.gatech.edu.

Course Textbook: Applied Statistics and Probability for Engineers by Montgomery and Runger, 7th Edition, online book with WileyPLus code. Please click on one of the WileyPlus link provided in the Modules section of this course. That link

will direct you to the link where you can buy the book and e-resources. Course Objectives: Provide an introduction to probability, probability distributions, point estimation, confidence

intervals, hypothesis testing, and linear regression. This course is cross-listed with MATH 3770 and CEE 3770.

continuous), conditional probability, joint probability, expectation, variance, conditional expectation, conditional variance, independence, laws of large numbers, and basic Poisson processes.

2. Analyze and display sampling data, evaluate statistics, and estimate distribution parameters;

1. Solve problems involving discrete and continuous random variables, probability distribution functions (discrete and

3. Draw conclusions about population parameters from experimental data by using proper statistical techniques;

4. Use proper statistical techniques (namely hypothesis testing) to draw sound statistical conclusions; 5. Use computer software (e.g., Microsoft Excel) to apply statistical methods to solve problems.

Prerequisites

MATH 2401 or 2411; MATH 24X1 or MATH 2605; MATH 2551/2561 or MATH 2X51.

Schedule: The schedule is posted online at this <u>link</u> ≥, and there might be some adjustments. It is the students' responsibility to check the schedule before getting ready for any assignments. Since this class is in an online format, it is the students' responsibility to know what is happening and when. Students are expected to keep up with the pace by the schedule posted. In the schedule, specific videos and reading materials are presented week by week.

Mode of Instruction: The class content will be delivered in a <u>fully</u> online format; meaning there will not be any synchronous class. All the lectures, slides, past exams, etc. are posted to the class canvas site.

You need to schedule the office hour via email. TAs will do office hours at the <u>designated time</u> listed above.

Meeting Times and Virtual (On-Line) Hours: Dr. Ketenci will be available for a virtual office hour on-demand, on BlueJeans.

System Requirements: Each student needs to have access to the internet. Fast access to the internet (DSL, etc.) is strongly recommended. The computer should have speakers, and a microphone is needed if the student would like to participate in virtual office hours. Students will have access to videos, etc. via Canvas.

Communications: Communications between the instructors and students and among students are maintained in the discussion board, announcements, Piazza, and email in Canvas. Students are expected to check canvas daily. The communication is open all the time. The instructors will do their best to reply within 24 hours on weekdays. *Please* understand that there is no reply/posting from instructors on weekends.

This term we will be using Piazza for class discussion. The system is highly catered to getting you to help fast and efficiently from classmates, the TA, and myself. Rather than emailing questions to the teaching staff, I encourage you to post your questions on Piazza. If you have any problems, email team@piazza.com.

Find our class signup link at https://piazza.com/gatech/spring2021/isye3770t12

Class Materials:

The module page has weekly learning materials, assignments, optional recitation materials, optional review questions, and a schedule of the class.

Grading: Students are responsible for checking the posted grade. No adjustment of any grade posted will be made according to the guidelines set below. Letter Grade Minimum Target Averages: A: 90%; B: 80%; C: 70%; D: 60%

Assignments and Grade Components

Quizzes (total of 5): 20%; Participation (total of 4): 10%; Exams (total of 3): 70%. No Curving! Exams will be taken online through the canvas site in 24 hours at the date posted in the schedule (EST). All of the tests will be timed, you need to complete the assignments when you open them.

No partial credits will be given for exams and quizzes. WileyPlus will always show your grade as 0 until the deadline passes. Please give a day for WileyPlus to adjust the grades. Not all the sections of the book are covered in this course. The assignments will only have the content from the sections covered in the schedule.

This course pace is very fast and it gets easier when you practice a lot.

Review Questions: They are not graded or collected. They are meant to be a practice tool; I strongly encourage you to do all of the problems. If there is any issue or question related to the textbook or online WileyPlus environment, please chat with Wiley Support from the following link: www.wileyplus.com/support ₽

Quizzes: Short 1-5 questions with subquestions computerized quizzes will be given. No partial credits! If students make calculations or rounding mistakes, it is not an option to ask the instructor to correct them. No makeup guizzes will be given for any reason. No extensions. No exceptions. If you have an official Georgia Tech accepted-reason for missing a quiz, you must produce appropriate documentation justifying your absence prior to and no later than one week from the date of the quiz. If you are authorized to miss a quiz, the quiz component of your grade will be based upon the average of the quizzes that you did take.

None of the guizzes will be dropped!

Exams: There will be *three exams and no final exam*.

There will be no make-up exams for any reason! If you have an official Georgia Tech accepted-reason for missing an exam, you must produce appropriate documentation justifying your absence prior to and no later than one week from the date of the exam. If you miss an exam due to an Institute-approved absence, the exam component of your grade will be based upon the average from the exam that you did take. Any student missing more than one exam is at risk for satisfactory completion of this course.

There will be absolutely NO consideration for exam score adjustments after 24 hours of the grade for that exam being posted to Canvas.

Participation: There will be 4 discussion board questions where you need to answer a question, each is 2.5 points, and the total is going to be the students' participation grade. Please note that both quantity and quality are important considerations when it comes to participation. Completion is not enough, it has to be accurate. For example, a message which says simply, "I agree," does not constitute participation because it does not add anything of substance to the discussion. NO credits will be given to the late assignments.

Re-grade Policy

To clarify your quiz/exam questions, please follow the steps below:

1- Look at your questions, answers, and solutions on WileyPlus.

2- If it is not clear, check out Quiz solution videos under Files

3- If it is not clear, post your questions on Piazza 4- If it is not answered, show up in one of the office hours

5- If you do all these checkings and still not satisfied, arrange a personal time with one of our TAs. But, there is a chance that you may lose 1 point from your quiz

6- If s/he believes there is a need for regrading, I will consider regrading.

DO NOT submit re-grades for partial credit. If you have strong reasons to believe that there was a mistake in the grading of your exam, you can request a written request for re-grading by submitting a Grade Readjustment Form within three days of my handing back the graded assignment or test. The form is available at the Getting Started menu. Regrades involve re-grading the entire assignment, and if no mistake is found, 1 point will be deducted from your overall assignment grade. The exam will not be re-graded if the procedures outlined here are not followed.

The instructor will not answer any question during the last weeks of class such as

- Can I do something extra to increase my grade?
- Can we sit together and calculate my grade?
- Can I retake exam 2 or quiz 2?...

Attendance: Attendance is NOT a formal requirement. However, in order to do well in this class, you need to listen to online lectures, take notes, and participate in discussions. It is your responsibility to keep up with readings and lecture notes as exams and quizzes will be based both on online lectures and reading the content.

Email

All emails to the instructor must have [ISyE 3770] in the subject line. Failure to place this in the subject line could cause your email not to be read. The instructor does not answer conceptual questions via email. Please schedule office hours or attend TA's in-class office hours.

24-hour rule: During the 24-hour period before exams, the instructor and TAs will not be responding to emails asking for clarification on concepts, topics, homework problems, or anything already discussed in class.

Miscellaneous

Students are responsible for all announcements made via email, in class, and those posted to the canvas. Students are

All grades will be posted on the canvas. Please check it often to ensure your grades are correct.

Student-Faculty expectations http://www.catalog.gatech.edu/rules/22/

responsible for all changes in the schedule that are posted on the class website.

HONOR CODE

All students are expected to be familiar with the Honor Code and are bound by its requirements. You must observe the Honor Code with respect to examinations, assignments, and all other aspects of this course. In particular:

Exams: Exams are individual assignments. You may not consult or collaborate with anyone (human) or anything (nonapproved materials including textbooks, cell phones, laptops, additional cheat sheets, etc.) while taking an exam. Submission of your exam is an acknowledgment that you have complied with the Honor Code.

Any student found violating the honor code WILL be reported to the Office of Student Integrity, no exceptions. I have a zero-tolerance policy when it comes to cheating, so, DON'T CHEAT.

http://www.policylibrary.gatech.edu/student-affairs/academic-honor-code

If you are a student with learning needs that require special accommodation, contact the Office of Disability Services at (404)894-2563 or http://disabilityservices.gatech.edu/ , as soon as possible, to make an appointment to discuss your special needs and to obtain an accommodations letter. Please also e-mail me as soon as possible in order to set up a time to discuss your learning needs.

Please note: This syllabus provides a general plan for the course, and deviations may be necessary.