Continuity of Learning: Due to social distancing requirements, this class will include a variety of online and technology enhanced components to reinforce continuity of learning for all enrolled students. Before the drop/add deadline, students should decide whether the course plan on the syllabus matches their own circumstances.

Instructor Information:
Name: Jin-Hong Park, PhD in Statistics
Email: parkj@cofc.edu
OAKS will be used for this course throughout the semester to provide the syllabus and class materials, which will be regularly posted.
Virtual Office Hours: 12:05 – 1PM on Monday and Wednesday. Others are available via email or a personal Zoom if necessary.

Course Meeting: Zoom Meeting at 10:50 – 12:05PM on Monday and Wednesday*  
* All students must have access to a computer equipped with a web camera, microphone, and Internet access. Please turn camera on so that Zoom and I check your attendance correctly. Also please turn speaker off unless you have a question.

Course objectives:
This course is designed for the second course of the two-semester introductory statistics. Students will learn the conceptual idea and techniques associated with the popular statistical methods such as regression. In the context of linear model, they will learn how to use statistical methods for analyzing a real-life data, and to interpret quantitative information. The emphasis is not on theoretical properties, but on understanding basic concepts and applying statistical techniques to be able to build an appropriate model, assess the adequacy of a proposed model, and draw conclusions from the fitted model.

Course Topics:
We will cover the following topics. A Review of Basic Concepts; Simple Linear Regression; Multiple Regression Models; Model Building; Variable Screening Methods; Some Regression Pitfalls; Residual Analysis; Special Topic in Regression; Time Series Modeling and Forecasting; Principles of Experimental Design & Analysis of Variance for Designed Experiments, if time is permitted.

Textbook:  
Mendenhall and Sincich, A second course in statistics: regression analysis, 7th edition, Pearson

Statistical Software: Students will learn how to perform the techniques covered in this course by using statistical software R.

Requirement:
1. Homework (20%)*
2. Four tests (20% each)**
3. Final Term Project (20%)***
MATH 350-02 (SPRING 2022)
STATISTICAL METHODS II

* There are several practical problems in the homework. No late homework will be accepted unless you have received an extension from instructor in advance of due date.
** There are four in-class tests. Each test is 20% of your course grade. The lowest one will be dropped. Hence, I do NOT plan on giving make-up tests.
*** Your final project is an essential and important part of this course. It could be a real data analysis of your interest. You are expected to provide a concise written report that will be due on TBA.

Homework Policy:
1. A student who does not submit more than two homework will get F in this course.
2. Just an answer without detailed procedure will not be accepted for a credit.
3. Just R output without interpretation will not be accepted for a credit.
4. All work should be shown in a neat and orderly manner.

Grades:
A: 90 or above; A-: 87-89; B+: 83-86; B: 80-82; B-: 77-79; C+: 73-76; C: 70-72; C-: 67-69; D+: 63-66; D: 60-62; D-: 57-59; F: 56 or below

Attendance Policy:
1. Full participation in all classes is expected for all students.
2. A student who misses five classes will get WA or F in this course.
   * The camera must be turned on during all classes. If your camera is off, it will be counted as an absence. If you are more than 10 minutes late or leave earlier, it will be counted as an absence.
   ** Students will be responsible for making up the classes for all absences including but not limited to personal illness, COVID-related illness, a requirement that they isolate or quarantine, or the need to care for a family member who is ill due to COVID.

Midterm Policy:
Instructor strongly recommends withdrawing this course if your midterm grade is less than 60%.

Important Dates:
January 17: MLK holiday, No class
January 18: Last day of drop/add
February 2: Test 1
February 28: Test 2 (covers the first half)
March 7 & 9: Spring break (no classes)
March 25: Last day for students to withdraw with a W
March 30: Test 3
April 25: Test 4 (covers the second half)
TBA: Final Term Project Due

Recording of Classes (via ZOOM):
Class sessions will be recorded via both voice and video recording. By attending and remaining in this class, the student consents to being recorded. Recorded class sessions are for instructional use only and may not be shared with anyone who is not enrolled in the class. The main goal of the recording is that students make up the classes for all absences including but not limited to personal illness, COVID-related illness, a requirement that they isolate or quarantine, or the need to care for a family member who is ill due to COVID. The recorded lecture is uploaded in Oaks for a week or so.
College Honor Code:
Any violation of the College's Honor Code will be reported to the Honor Board. For more details, see http://studentaffairs.cofc.edu/honor-system/ and the Student Handbook at http://studentaffairs.cofc.edu/honor-system/studenthandbook/

Accommodations for Students with Disabilities:
If there is a student in this class who has a documented disability and has been approved to receive accommodations through the Center for Disability Services/SNAP (Students Needing Access Parity), please discuss this with me during my office hours.

Attendance Verification: Only students officially registered (graded or auditing) for this course may attend class. During the week following the drop/add deadline, the professor will verify student enrollments in this course. Any student appearing on the class roll but determined not to have attended the class even once will be removed.

NOTE:
1. I will utilize email/OAKS to announce the important schedules fairly often. Therefore, it is important that you check your email/OAKS regularly. I encourage you to contact me via email.
2. The course syllabus is a general plan for the course; deviations announced to the class by the instructor may be necessary.
3. The last test and final term project will not be returned to you based on the college policy.