



## 2026 Korea University International Summer Campus (KU ISC)

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June 27, 2026 – July 24, 2026

### ISC207A – Statistics

#### I . Instructor

Professor	:	Anurag Agarwal
E-mail	:	<a href="mailto:aagarwal@fgcu.edu">aagarwal@fgcu.edu</a>
Home Institution	:	Florida Gulf Coast University
Class Time	:	9:00 – 11:30 AM
Office Hours	:	11:30 AM to 12:30 PM
Class Format	:	Blended
Academic Field	:	Analytics, Information Systems

#### II. Textbook

Required Textbook	:	None
Recommended Additional Readings	:	Notes will be provided through Blackboard

#### III. Course Description and Objectives (1 course = 3 credits)

In this course we will learn the fundamentals of Statistics, which is basically the science of collecting, summarizing, describing, analyzing and interpreting data. Data can be about any aspect of the real world that we want to study. Statistics is used to perform empirical research and to test various hypotheses about the world, in almost every discipline of study, whether it is the hard sciences or the social sciences or business.

The topics covered are:

- Descriptive Statistics (Types of Data, Frequency Distribution, Graphs, Measures of Central Tendency, Measures of Variability)
- Probability and Probability Distributions (Binomial, Poisson, Hypergeometric, Normal, t, Uniform, Chi-Square and F)
- Population and Sample and Sampling Distributions (Central Limit Theorem)
- Confidence Intervals of Means and Proportions
- Test of Hypotheses (Z-test, T-test, one-population, two populations, proportions)
- Correlation and Simple and Multiple Linear Regression Analysis
- Analysis of Variance (F Tests)

## IV. Grading

**Ethical Behavior Requirement:** Cheating, plagiarism, or any form of academic dishonesty will be penalized with an F grade. Also, students must attend all classes, exhibit good behavior and attitude.

**Attendance Policy:** This is a blended class. Students are expected to attend every class meeting. Korea University requires a minimum attendance of 70%. If you are absent more than 70% of the time, you will lose points.

**Exams:** There will be two in-class exams (a midterm and a final). The final exam will be cumulative.

**Quizzes:** There will be five quizzes, each worth 15 points. There will be no makeup quizzes. The lowest quiz score will be dropped. If you miss a quiz, that quiz will be considered a dropped quiz.

**Assignments:** There will be 5 assignments. You will not be required to submit them for grading. They are for practice only.

Quizzes	:	60
Midterm Exam	:	30
Final Exam	:	40
Attendance, Behaviour and Attitude	:	10
Total	:	140
A+ @133, A @ 126, B+ @ 119, B @ 112, C+ @ 105, C @ 98, D+ @ 91, D @ 84, F @ below 84		

To receive full credit on Attendance, Behavior and Attitude, student should attend at least 70% of classes, show good behavior, such as being polite and courteous in all interactions. Interactions in this course will be all online. So, during class, if students are speaking, they should speak politely and courteously, if they are typing something in the chat window, the language should not be offensive. Outside of class, if students are interacting through email, the language should be polite, courteous and respectful.

## V. Class Outline

Date	Topic	Chapter	Remarks
June 27 (Sat)	Orientation Day (No class)		
June 29 (Mon)	Data and Descriptive Statistics		
June 30 (Tue)	Data and Descriptive Statistics		
July 1 (Wed)	Probability		
July 2 (Thu)	Probability Distributions		

July 6 (Mon)	Probability Distributions		
July 7 (Tue)	Sampling Distributions and Central Limit Theorem Confidence Intervals of Mean and Proportions		
July 8 (Wed)	Hypothesis Testing		
July 9 (Thu)	Hypothesis Testing		
July 13 (Mon)	Analysis of Variance		
July 14 (Tue)	Categorical Data Analysis (Chi-square tests)		
July 15 (Wed)	Categorical Data Analysis (Chi-square tests)		
July 16 (Thu)	Correlation and Simple Regression Analysis		
July 20 (Mon)	Correlation and Simple Regression Analysis		
July 21 (Tue)	Multiple Regression Analysis		
July 22 (Wed)	Review		
July 23 (Thu)	Review and Final Exam		
July 24 (Fri)	Last day of 4-week program		