• Lecture Times: M 13:40 – 15:30  
  T 9:40 – 10:30  

R Sessions: R 10:40 – 11:30  

• Instructor: Semih Sezer  
  FENS L024  
  Phone: 9586  
  Email: sezer@sabanciuniv.edu  

Office Hours: By appointment.  

• Course description: The course aims to discuss important topics in statistics in a mathematically rigorous way. The topics that will be discussed include sampling distributions and asymptotics, point and interval estimations, hypothesis testing, ANOVA and regression analysis. Implementations will be illustrated with R.  

• Lecture Material: We will follow the lecture notes. They will be posted on SUCourse+ Course Management System (at https://sucourse.sabanciuniv.edu/plus/).  

Supplementary Reading for R:  

Recommended (Optional) Reading for Statistics:  

• Course Content (Tentative Plan – as time permits):  
  - Probability Theory  
  - Sampling Distributions  
  - Sufficient Statistics  
  - Point Estimation  
  - Interval Estimation  
  - Some Special Tests  
  - ANOVA  
  - Linear Regression  
  - Convergence Concepts and Limit Results  
  - Delta Method  

• Grading Policy:  

There will be two exams: one midterm and one final. The weights of these exams will be 45% and 55% respectively.
Both exams will be take-home exams. The midterm will be on December 4th, and the final will be on January 7th.

- It is students’ responsibility to follow all the announcements made in class and those made via SUCourse+ Course Management System.