• **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 4\textsuperscript{th}, and the final will be on January 7\textsuperscript{th}.

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