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

**R Sessions:**
- R 10:40 – 11:30

**Instructor:**
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**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.