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 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.