

# MATH 306, Statistical Modelling

## Spring 2023-24

### Syllabus

## 1 Instructor and Teaching Assistants

Instructor: Semih Sezer      sezer@sabanciuniv.edu  
Office: FENS L024  
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Assistants: Zohreh Aliabadi      zohreh.aliabadi1@sabanciuniv.edu  
Mert Özçelik      ozcelikmert@sabanciuniv.edu  
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Batuhan Bahçeci      batuhan.bahceci@sabanciuniv.edu  
Onur Orman      onur.orman@sabanciuniv.edu

## 2 Office hours

Office hours for the instructor and the assistants: by appointment.

## 3 Time and Venue

### 1. Lectures

Day	Time	Classroom
Wednesday	8.40-9.30	FENS G077
Friday	8.40-10.30	FENS G077

### 2. Recitations

Section	Day	Time	Classroom	TA
A	Monday	9.40 - 10.30	FENS L027	Batuhan Bahçeci
B	Monday	10.40 - 11.30	FENS L027	Abdullah Alluş
C	Monday	11.40 - 12.30	FENS L027	Semih Sezer
D	Monday	12.40 - 13.30	FENS L065	Ayça Demir
E	Monday	13.40 - 14.30	FENS L062	Ayça Demir
F	Monday	14.40 - 15.30	FENS L027	Onur Orman
G	Monday	15.40 - 16.30	FENS L067	Zohreh Aliabadi
H	Monday	16.40 - 17.30	FENS L035	Zohreh Aliabadi
I	Tuesday	14.40 - 15.30	FENS L029	Abdullah Alluş
J	Tuesday	15.40 - 16.30	FENS L029	Onur Orman

## **4 Textbook**

John Freund's Mathematical Statistics with Applications, 8th Edition, Pearson-Prentice Hall, 2004, ISBN 978-1-292-02500-1.

## **5 Lecture Slides and Recordings**

Lecture slides and lecture recordings will be available on SUCourse+.

## **6 Course Description**

The course covers the material listed below. Chapters refer to the above mentioned textbook.

- Chapter 8: Sampling Distributions (Review)
- Chapter 10: Point Estimation
- Chapter 11: Interval Estimation
- Chapter 12: Hypothesis Testing
- Chapter 13: Test of Hypothesis Involving Means, Variances and Proportions
- Chapter 14: Regression and Correlation . . . and more if time permits

## **7 Exams and Other Items**

1. There will be one midterm and one final. Their weights are as follows:

Midterm: 45 %

Final: 55%

Both the midterm and the final will be (non-online) written exams held in classrooms on campus.

The midterm date & time: April 28th, 12 noon.

Final exam date & time will be announced by the Student Resources.

2. Make-up policy

If you miss an exam, you do NOT need to contact the instructor to explain the reason. There will be a single make-up exam after the final exam period. The make-up exam grade will replace all your missing exam grades.

The make-up exam will be cumulative. It will be a (non-online) written exam on campus. Its date will be announced later.

3. During the exams, the use of cheat sheets and electronic equipments (including cell phones, smart watches, calculators, computers etc.) are NOT allowed. Exams are closed book and closed notes exams.
4. Students are expected to attend the lectures as much as they can. For the ones they miss, they are expected to watch the recordings on SUCourse+.
5. It is students' responsibility to follow all the announcements made in class and those made via SUCourse+.
6. Students are advised to study regularly every week next to going to classes and attending the recitations. If the material discussed in class is not fully understood, students should make an appointment with the instructor or one of the course assistants after the class.