

Syllabus for MATH 306 (Statistical Modelling) Summer 2024

1 Instructors and Teaching Assistants

Instructor: Özgür Asar (ozgur.asar@sabanciuniv.edu)

Teaching assistants: Mohammad Zadeh Dabbagh (mohammad.dabbagh1@sabanciuniv.edu)
Abdullah Alluş (abdullah.allus@sabanciuniv.edu)
Andisheh Choupani (achoupani@sabanciuniv.edu)
Zohreh Aliabadi (zohreh.aliabadi1@sabanciuniv.edu)

2 Office hours

1. Office hours by the instructor: by appointment.
2. Office hours by the TA's: by appointment.

3 Time and Venue

1. Period: 08 July - 27 August, 2024
2. Lectures: Wednesday 11:40 am - 2:30 pm + Thursday 8:40 am - 11:30, Fac. of Arts and Social Sci. G062
3. Recitations

Section	Day, time, venue	TA	Students
A	Mon 2:40 pm - 4:30 pm, FASS G006	M Z Dabbagh	Abdulrahman, M - Büyükalpelli, M
B	Mon 2:40 pm - 4:30 pm, FENS L063	A Alluş	Candaş, B - Gürbüz, M
C	Mon 2:40 pm - 4:30 pm, FASS 1001	A Choupani	Hallaçeli, E - Ocakoğlu, S
D	Mon 2:40 pm - 4:30 pm, FASS G052	Z Aliabadi	Özcan, B - Yurdakul, F

4 Textbook

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

5 Lecture and Recitation notes

Lecture notes will be uploaded to SUCourse. Recitation questions and solutions will also be uploaded to SUCourse.

6 Prerequisite and Corequisite

Prerequisite is a grade at least D for MATH 203. MATH 306R is a corequisite.

7 Course Description

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

- Chapter 8: Sampling Distributions
- 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

8 Recitations

- Students must attend the recitation session that they are allocated to.
- Recitations are supposed to be an active learning environment. Your behavior will be monitored by the TA's. If you misbehave during recitations, this will be reported to the instructor and appropriate measures will be taken. In extreme cases, this may even affect your course grade.

9 Exams and Course Policies

1. There will be one mid-term and one final. The weight of each exam is 50%.

The dates and times of the midterm and final are as follows.

Midterm exam: 07 August 2024, at 11:40

Final exam: To be held in the final exam time period (24-27 August), exact date will be announced later

2. Make-up exam: one who missed an exam can take a make-up that will be held at the end of the summer term and the exam will cover all the topics.
3. The passing grade will be determined after the last exam. Be aware that this passing grade may not match the overall average of the students.
4. It is students' responsibility to follow all the announcements made in class and those made via SUCourse.