

Syllabus MATH 306, Statistical Modelling Spring 2021

1 Instructors and Teaching Assistants

Instructor: Hans Frenk

Email: frenk@sabanciuniv.edu

Office: FENSG 052

2 Office hours

1. Office hours instructor: By appointment. Preferable after lecture.
2. Office hours teaching assistants: By appointment. Before exam there will be more office hours to ask questions.

3 Time and Venue

1. **Lectures (will be recorded and uploaded to Google drive after the lecture on the same day)**

Wednesday 8.30-10.30 link is in folder Zoomlink (Sucourse+)

Friday 8.30-9.30 link is in folder Zoomlink (Sucourse+)

2. **Recitations (will not be recorded)**

Math306R-A Wednesday 16.40 – 17.30 link is in folder Zoomlink (Sucourse+)

Math306R-B Thursday 10.40 – 11.30 link is in folder Zoomlink (Sucourse+)

Math306R-C Thursday 11.40 – 12.30 link is in folder Zoomlink (Sucourse+)

Math306R-D Thursday 12.40 – 1.30 link is in folder Zoomlink (Sucourse+)

Math306R-E Thursday 16.40 – 17.30 link is in folder Zoomlink (Sucourse+)

Math306R-F Friday 14.40 – 15.30 link is in folder Zoomlink (Sucourse+)

Math306R-G Friday 15.40 – 16.30 link is in folder Zoomlink (Sucourse+)

Math306R-H Friday 16.40 – 17.30 link is in folder Zoomlink (Sucourse+)

Teaching assistants	Deniz Sahin	sahindeniz@sabanciuniv.edu	Math306R-E
	Derev Koç	derevkoc@sabanciuniv.edu	Math306R-B
	Eralp Eryanilmaz	eryanilmaz@sabanciuniv.edu	Math306R-F
	Deniz Kucukahmetler	dkucukahmetler@sabanciuniv.edu	Math306R-G
	Berkan Önder Karamelek	bkaramelek@sabanciuniv.edu	Math306R-H
	Ender Akpınar	enderakpinar@sabanciuniv.edu	Math306R-C
	Haşim Hakanoğlu	hasimhakanoglu@sabanciuniv.edu	Assistent
	Osman Berke Güney	osmanberke@sabanciuniv.edu	Math306R-A
	Zeynep Küçüksari	zkucuksari@sabanciuniv.edu	Math306R-D

4 Textbook

John Freunds Mathematical Statistics with Applications, 8th Edition, Pearson-Prentice Hall, 2004.

5 Lecture slides

Slides will be uploaded on SUCourse+ in folder lecture notes and exercises and some solutions in folder recitations.

6 Course Description

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

- Overview Probability Theory
- 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 and more if time permits

7 Recitations

- Students must attend the recitation sessions they have registered for. There will be no attendance taken. It is strongly advised to attend the recitations. The recitation sessions will start in the week of March 8th and part of the solutions will be uploaded to Sucourse+ after the recitation. The exercise set will be uploaded 4 days before the recitation session in the folder recitation.
- Recitations are supposed to be an active learning environment. Your behavior will be monitored by the teaching assistants. 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.

8 Exams and Course Policies

1. There will be one midterm and one final. There will be no makeup for the midterm. The weight of the midterm is 50% and of the final 50%. The date and times of the midterm is as follows.
Midterm: April 2nd 2021 (19.00-22.00)
Final exam will be announced by the Student Resources.
2. Make-up policy.
There will be a make-up exam after the final exam. The make-up exam grade will replace all your missing exam grades. If you miss an exam, you do NOT need to contact the instructors to explain the reason. It is **STRONGLY** recommended that you take the midterm and the final. The make-up exam will cover all the material and will most likely be more difficult.
3. The date of the make-up exam will be announced after the final exam. It will most likely be within two days after the end of the final exam period.
4. **Students whose online exams answers seem suspicious will be called to recorded oral exams with the instructor. The oral exam questions will not be limited only to the suspicious answers in exams; the instructor may ask other questions to evaluate the student's understanding of the course material. If the student performs badly in the oral exam he will not pass this course and receives F.**
5. It is students' responsibility to follow all the announcements made in class and those made via SUCourse+.

Important Note:

Do not underestimate this course. It is advised that you study regularly every week next to going to classes and attending the recitation session. If you do not fully understand the material you should make an appointment with your teaching assistant or instructor. For instructor immediately after the lecture.