

Syllabus MATH 306, Statistical Modelling Summer 2022

1 Instructors and Teaching Assistants

Instructor: Özgür Asar ozgur.asar@sabanciuniv.edu | ozgurasarstat@gmail.com

Coordinating teaching assistant: Ayda Amniattalab ayda@sabanciuniv.edu

Teaching assistants: Navid Aftabi navid@sabanciuniv.edu
Sina Shahri Majarshin ssina@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: 18 June - 02 September, 2022
2. Lectures: Wednesday 08.40-11.30 + Thursday 08.40-11.30, Fac. of Engin. and Nat. Sci. G077
3. Recitations

Section	Day, time,venue	TA
A	Monday 14:40 - 16.30, Fac. of Engin. and Nat. Sci. L065	Ayda Amniattalab
B	Monday 14:40 - 16.30, Fac. of Engin. and Nat. Sci. L067	Navid Aftabi
C	Monday 14:40 - 16.30, Fac. of Engin. and Nat. Sci. L058	Sina Shahri Majarshin

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 midterms are as follows.
Midterm exam: 17 August 2022, at 08:40
Final exam: 01 September 2022, at 08:40
2. Make-up exam: one can take a make-up exam that will be held at the end of the summer term and cover all the topics. Anyone can take it to replace an exam that has the lowest score.
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.