



MATH 111 – Fundamentals of Mathematics
Fall 2018
Course Syllabus

Instructors: Gülin Ercan (Section 1)
Sergey Finashin (Section 2)
Burak Kaya (Section 3)
Gökhan Benli (Section 4)

Website: <http://ma111.math.metu.edu.tr>

Office hours: TBA

Class hours and classrooms: (Section 1) Monday 10:30-11:40, Wednesday 08:40-10:30, M103
(Section 2) Monday 11:40-12:30, Wednesday 13:40-15:30, M104
(Section 3) Tuesday 08:40-10:30, Thursday 12:40-13:30, M104
(Section 4) Tuesday 15:40-17:30, Thursday 12:40-13:30, M13

Coordinator: Burak Kaya

Course description: The main goal of this course is to enable the student to comprehend and construct mathematical arguments, as well as to develop the student's mathematical maturity by providing basic definitions, facts and necessary tools. It is to your advantage to learn how to write mathematics as early as possible. If you do well in this course, then it is very likely that you will have no trouble in the rest of your education in the mathematics courses.

Textbook: The official textbook of the course is

Proofs and Fundamentals: A First Course in Abstract Mathematics, Second Edition, Ethan D. Bloch
ISBN: 978-1441971265

It can be officially downloaded from Springer's website <https://link.springer.com/book/10.1007/978-1-4419-7127-2> if you are connected to the internet through the university.

Grading: There will be **four** midterms (each one out of 30), a final exam (out of 80). Your total grade will be calculated by the following formula:

Total grade = (Midterm 1+Midterm 2+Midterm 3+Midterm 4+Final)*0.5

Attendance policy and NA policy: Attendance **is** required according to the following rule:

- If you attend less than %70 percent of the classes **and** your four midterm scores add up to less than 40 points, then you shall not be able to take the final exam and get an NA grade.

Besides this rule, the following rules also apply:

- If your four midterm scores add up to less than 20 points, then you shall not be able to take the final exam and get an NA grade regardless of your attendance.
- If you miss more than two midterms, then you shall not be able to take the final exam and get an NA grade regardless of your attendance.

This policy will be strictly enforced and is not up to discussion. If you are a first year student and have a conflicting class, then you may attend a suitable section provided that you get permission from **both** instructors.

Make-up policy: No make-ups will be given without an official report. Moreover, you cannot take more than one make-up exam even if you have official report. (Those students who are planning to complete their paid military service during the semester are expected to contact the course coordinator immediately.)

Academic dishonesty policy: You are expected to be familiar with the university's [academic integrity guide](#) for students. No form of academic dishonesty is tolerated. If you are caught cheating, then you will fail the course **and** official disciplinary action may be pursued.

Information for students with disabilities: To obtain disability-related academic adjustments and/or auxiliary aids, students with disabilities must contact the course instructor and the METU Disability Support Office as soon as possible. For further information, visit the web site <http://engelsiz.metu.edu.tr>.

Weekly course plan: Below is the tentative course plan. Keep in mind that this tentative course plan is subject to change depending on our progress each week.

Week 1	Chapter 1
Week 2	Chapter 1
Week 3	Chapter 1 and Chapter 2*
Week 4	Chapter 2*
Midterm 1 (October 25)	
Week 5	Chapter 2*
Week 6	Chapter 3*
Week 7	Chapter 3* and Chapter 4
Midterm 2 (November 15)	
Week 8	Chapter 4
Week 9	Chapter 4
Week 10	Chapter 5*
Midterm 3 (December 6)	
Week 11	Chapter 5*
Week 12	Chapter 6*
Week 13	Chapter 6*
Midterm 4 (December 27)	
Week 14	Chapter 6*
Final (TBA)	

*: Sections 2.6, 3.5, 6.1 and 6.2 are excluded and Section 7.4 is included.