Mat 100 Precalculus (Fall 2015)

http://math.ncc.metu.edu.tr/math100

Frequency: Fall/Spring Terms

Credit: (1-2)2

Catalog description: Mat 100 is a preparatory course for calculus courses. Topics include: Functions and their inverses, operations with functions and graphing techniques, polynomial functions, rational functions, exponential and logarithmic functions, trigonometric functions, trigonometric identities and trigonometric equations, systems of equations, inequalities and solving techniques.

Justification for the Course Proposal: This course is meant to prepare students for success in the calculus series (MAT 119-120).

Course Objectives: A successful student will: become comfortable with the language of functions; gain an understanding of polynomial, rational, exponential, logarithmic and trigonometric functions and ability to describe their graphs; be able to solve linear and quadratic equations and equations with exponential and logarithmic functions; and gain problem solving skills analyzing the quantitative aspects of real- world problems and creating mathematical models.

Course Coordinator: Emel Bilgin (office: TZ-30, e-mail: *bemel@metu.edu.tr*)

Exams and Grading: Course grades are determined by (online) homework completed in recitations, a midterm exam, and a final exam, as well as a small number of bonus points awarded on the basis of attendance, class participation, and/or project completion.

- **Homeworks:** 15% (WeBWork)
- **Midterm:** 50 %
- **Final Exam:** 50 %
- **Bonus:** 5 % (policy varies between sections)

Letter Grades given according to the following scheme:

- 00% - 39%: FF
- 40% - 59%: FD
- 60% - 64%: DD
- 65% - 69%: DC
- 70% - 74%: CC
- 75% - 79%: CB
- 80% - 84%: BB
- 65% - 89%: BA
- 90% & up : AA

Homework: Course homework will be assigned and graded using WeBWork system.

Textbook: Barnett, Ziegler, Syleen and Sobecki. *Precalculus* 7th ed. Mc Graw Hill, 2010.

Make-up Policy: In order to be eligible to enter the make-up examination for a missed examination, a student must have a documented or verifiable and officially acceptable excuse. **It is not possible to make up multiple missed exams.** The make-up examination for all exams will be after the final exam, **and will include all topics.**

Math Help Room: The mathematics help room in T-103 is a room staffed by mathematics faculty and teaching assistants where students may gather to ask questions, work on homework, and view exams. *Students are also invited to seek out instructors in their offices.*

S1 – E. Bilgin	Wed 15:40-16:30 Fri 15:40-17:30	TZ-22 SZ-22
S2 - E. Bilgin	Wed 13:40-15:30 Fri 9:40-10:30	SZ-22 TZ-22
S3 – S. Durhan	Tue 8:40-9:30 Thu 15:40-17:30	TZ-21 SZ-23
S4 – S. Durhan	Tue 10:40-11:30 Fri 8:40-10:30	TZ-21 SZ-22
S5 – M. Poddar	Wed 15:40-16:30 Fri 15:40-17:30	TZ-20 SZ-23
S6 – M. Poddar	Tue 10:40-11:30 Fri 8:40-10:30	TZ-20 SZ-23
S7- E. Gürel	Mon. 14:40-15:30 Wed. 13:40-15:30	TZ- 16

INSTRUCTOR	SECTION	OFFICE	PHONE	E-MAIL
Emel Bilgin	Sections 1,2	TZ-30	3423	bemel_at_metu.edu.tr
Salih Durhan	Sections 3, 4	R-142	2923	egurel_at_metu.edu.tr
Mainak Poddar	Sections 5,6	TZ-29	3422	mpoddar_at_metu.edu.tr
Erhan Gürel	Section 7	TZ-32	3425	egurel_at_metu.edu.tr

Important Dates

- **October 5**: Classes Start
- **October 12-16**: Add-Drop
- **October 29**: HOLIDAY (Thursday)
- **December 7-11**: Withdrawal application and approvals
- **December 23**: HOLIDAY (Wednesday)
- **January 8**: Classes End
- **January 11-23**: Finals Period
- **January 30**: Grades Announced
- **February 3-5**: Resit Exams