

2020 SPRING SEMESTER
MATH 126 BASIC MATHEMATICS II
SYLLABUS

Textbook: M. Dabbagh, A. Doğanaksoy, Calculus, for Students of Social Sciences.

Grading:

Midterm1: 25% (March 21, 2020 Saturday at 13.30)

Midterm2: 25% (April 18, 2020 Saturday at 13.30)

Final Exam: 40% (will be announced later)

Recitation: 10%

Course Syllabus:

1. Analytic Geometry in \mathbb{R}^2 , \mathbb{R}^3

Coordinate Systems, Curves, Surfaces, Vectors, Planes, Straight Lines.

2. Functions of several variables

Limits of Single valued Functions Continuity of Single valued Functions.

3. Differentiation

The Derivative, Partial Derivatives, Related Rates.

4. Applications of Differentiation

Mean Value Theorem, Concavity, Infinite Limits and Limits at Infinity, L'Hopital's Rule.

5. Integration