

Syllabus for Math 204

Spring 2018

Title of the Course: Differential Equations

Instructors:

- Hasan İnci, SCI 266, Office Hours: TBA
- Tolga Etgü, SCI 105, Office Hours: TuTh 3-4

Teaching Assistants:

- Oğuz Doğan, SCI 156, Office Hours: Th 2-3
- Fırtına Küçük, SCI 156, Office Hours: M 1-2
- Murat Can Aşkaroğulları, SCI 130, Office Hours: W 12:30-2:30

Web Address: <http://home.ku.edu.tr/~math204>

Textbook: W. E. Boyce, R. C. DiPrima, D.B. Meade, *Elementary Differential Equations and Boundary Value Problems*, Global/11th Edition (John Wiley & Sons, New York, 2017).

Topics to be covered: Introduction to differential equations (Chapter 1); First order ODEs (ordinary differential equations) (Chapter 2); Second and higher order ODEs (Chapters 3 and 4); Power series solution of ODEs (Chapter 5); The Laplace transform (Chapter 6); Systems of linear ODEs (Chapter 7); Partial differential equations (Chapter 10)

Evaluation: Students' progress will be evaluated according to their performance in two midterms and a final exam. The final exam will be a comprehensive exam covering all the material of the course. The contribution of the exams are as follows:

midterm exams 30% each, final exam 40%.

Problem Sessions: Attendance to the weekly problem sessions is strongly recommended.

The Make-Up Policy: If a student misses only one midterm exam and has a **documented valid excuse** (e.g., illness, family emergency, or attendance to university endorsed activities) **accepted by the Dean's office**, his/her score in the final exam will be substituted for the grade of the exam that is missed. If a student misses more than one midterm exam and/or the final exam, and has a documented valid excuse accepted by the Dean's office for each one of these exams, a single comprehensive make-up will be given after the final and its grade will be substituted for the grades of the exams that are missed.

Policy for Auditing Students: In order to get an AU (Audit) in this course a student should attend a minimum of 20 lectures. It is the auditing student's responsibility to contact the instructor at the end of each class and ask to sign a special attendance sheet.

Academic Dishonesty: Students and faculty adhere to the following principles of academic honesty at Koç University. Cheating, plagiarism, and collusion are serious offenses resulting in an F as well as serious disciplinary action.