

CSE 301

Algorithms

Fall 2025

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Course Schedule (Theory & Lab):

Theory	
Time	Wednesday 09:00
Location	AMFİ 2
Lab	
Time	Friday 14:15 - 16:00, 16:05 - 17:50
Location	Ylab 1

Textbook: Textbook:

- T. H. Cormen, C. E. Leiserson, R. L. Rivest, and C. Stein, *Introduction to Algorithms*, MIT Press and McGraw–Hill, 2009. Third Edition.

Suggested Algorithm Texts:

- Robert Sedgewick and Kevin Wayne, *Algorithms*, Addison–Wesley, 2011.
- Jon Kleinberg and Éva Tardos, *Algorithm Design*, Pearson, 2005.

Course Resources:

Lecture slides, announcements, and homework will be available through Microsoft Teams.

Academic Integrity:

If you get caught cheating or committing academic fraud in any way, maximum appropriate action will be taken. These actions include but are not limited to:

1. Assigning a grade of zero to the assignment.
2. Assigning a final grade of zero for the whole course.
3. Referring the matter to the disciplinary committee.

Discussing course topics and assignments is encouraged, provided it does not lead to an exchange of solutions.

Grading Policy:

Component	Weight
Lab	25%
Assignment	10%
Midterm	25%
Final	40%
Total	100%

Course Outline:

Week	Date	Subject
01	Sept 17	Introduction: analysing algorithms, designing algorithms
02	Sept 24	Solving Recurrences
03	Oct 1	Divide and Conquer Design Paradigm
04	Oct 8	Quicksort
05	Oct 15	Analysis of Quicksort
06	Oct 22	Medians and Order Statistics
07	Oct 29	Cumhuriyet Bayramı
08	Nov 5	Tentative Midterm Week
09	Nov 12	Dynamic Programming
10	Nov 19	Dynamic Programming
11	Nov 26	Greedy Algorithms
12	Dec 3	Graphs
13	Dec 10	Graphs
14	Dec 17	DFS & Topological sort