

Syllabus (by textbook chapter):

- 1 Introduction to Algorithms (DS3, DS5, PF2, PF3)
- 2 Fundamentals of the Analysis of Algorithm Efficiency (AL1)
- 3 Brute Force (AL2)
- 4 Divide-and-Conquer (AL2)
- 5 Decrease-and-Conquer (AL3)
- 6 Transform-and-Conquer (AL3)
- 7 Space and Time Tradeoffs (AL1, AL3)
- 8 Dynamic Programming (AL8)
- 9 Greedy Technique (AL2, AL3)
- 10 Iterative Improvement (CN2)
- 11 Limitations of Algorithm Power (AL6, IS8)
- 12 Coping with the Limitations of Algorithm Power (AL2)

Assessment Instruments:

Written and Programming assignments (90 %)
Final Exam (10 %)

The final exam will be a take home exam.

Attendance Policy:

Attendance is expected as well as required for each lecture. A penalty of 3% will be deducted from the final course grade for each missed lecture in which attendance was recorded (instructors prerogative on a lecture by lecture basis).

Course Grading:

- A: [90% - 100%]
- B: [80% - 90%)
- C: [70% - 80%)
- D: [60% - 70%)
- F: below 60%)