

UCLA

Computer Science Department

CS 180

Algorithms & Complexity

Fall 2020

Instructor: Majid Sarrafzadeh
majid@cs.ucla.edu

CLASS TIME: MW 10:00–11:50am

OFFICE HOURS: TR 8:00 to 8:50 am , in zoom

PLACE: <https://ucla.zoom.us/j/7527888939>

BOOK: “Algorithm Design” by Kleinberg - Tardos

CLASS PAGE: CCLE

TA discussion time and Office Hours (I) – All TA sections are on Fridays

Levine	Lionel	Saturdays	4:00pm to 6:00pm	Dis 1A: F 10-11:50am	https://ucla.zoom.us/j/8323477632
Atmakuri	Sai	Mondays	2:00pm to 4:00pm	Dis 1B: F 10-11:50am	https://ucla.zoom.us/my/saiatmakuri
Czyzycki	Evan	Mondays	12:00pm to 2:00pm	Dis 1C: F 10-11:50am	https://ucla.zoom.us/j/7465890882
Jiang	Song	Saturdays	12:00am to 14:00pm	Dis 1D: F 10-11:50am	https://ucla.zoom.us/j/8629601582
Chen	Jinghui	Saturdays	2:00pm to 4:00pm	Dis 1E: F 10-11:50am	https://ucla.zoom.us/j/8693598668
Goldstein	Orpaz	Tuesdays	8:00am to 10:00am	Dis 1F: F 2-3:50pm	https://ucla.zoom.us/j/94340776331

GRADING:

HOMEWORKS 25% weekly

MIDTERM 30% Monday November 02 (in class; 90 minutes)

FINAL 45% December 16, 2020 Wednesday 8am-11am

Students in different time zones that have permission from the instructor: Midterm and Final will be 12 hours later than the above scheduled midterm (10 pm pacific time) and final (8 pm pacific time).

Late policy: All homework are due/accepted **Tuesday at 9 am** to **Wednesdays at 9 am** all pacific times (before the class starts). Late homework will NOT be accepted.

**** Students in different time zones have the same deadlines as others (**Tuesday at 9 am** to **Wednesdays at 9 am** all pacific times).**

You must write your discussion section (number, time, and TA first name) on the upper right hand corner of your homework. And your name on the upper left.

We will be using Gradescope for homework submission and grading. Please register at www.gradescope.com and use our course code: **9Z72V5**.

Before submitting, take a few minutes to familiarize yourself with the system.

View resources available here:

<https://help.gradescope.com/category/cyk4ij2dwi-student-workflow>. In particular, we expect you to watch the “Submitting an Assignment” video, in order to avoid confusion and lost work. All work will be submitted in the form of a pdf file to Gradescope, with pages correctly marked for each question (explained in the link).

DESCRIPTION:

Prerequisites: course 32, Mathematics 61.

Design techniques: divide-and-conquer, greedy method, dynamic programming; selection of prototypical algorithms; choice of data structures and representations; complexity measures: time, space, upper, lower bounds, asymptotic complexity; NP-completeness.

