

# U C L A

## Computer Science Department

**CS 180**

**Algorithms & Complexity**

**Fall 2019**

**Instructor:** Majid Sarrafzadeh  
[majid@cs.ucla.edu](mailto:majid@cs.ucla.edu)

**CLASS TIME:** MW 10:00–11:50am  
**OFFICE HOURS:** MW 8:00 to 9:00 am , Engr VI Room 393  
**PLACE:** Ming Center, First floor of Engr VI  
**BOOK:** “Algorithm Design” by Kleinberg - Tardos  
**CLASS PAGE:** CCLE

**TA Office Hours** (3256 S Boelter Hall unless stated differently) – All TA sections are on Fridays

<b>Fazeli</b>	<b>Shayan</b>	Fridays	2:30 pm to 04:30 pm	<b>1E: PERLOFF</b> 1102 / Friday / 10:00am-11:50am	<a href="mailto:shayan@cs.ucla.edu">shayan@cs.ucla.edu</a>
<b>Goldstein</b>	<b>Orpaz</b>	Mondays	8:00 am to 10:00 am. Outside lab 391 ENG VI	<b>1A: KAPLAN</b> 169 / Friday / 10:00am-11:50am	<a href="mailto:orpgol@cs.ucla.edu">orpgol@cs.ucla.edu</a>
<b>He</b>	<b>Yuan</b>	Tuesdays	11:00 am to 01:00 pm. Outside lab 497 ENG VI	<b>1G: ROYCE</b> 362 / Friday / 12:00pm-1:50pm	<a href="mailto:heyuan89@cs.ucla.edu">heyuan89@cs.ucla.edu</a>
<b>Ding</b>	<b>Ling</b>	Thursdays	12:30 pm to 2:30 pm	<b>1C: ROLFE 3134</b> / Friday / 2:00pm-3:50pm	<a href="mailto:lingding@cs.ucla.edu">lingding@cs.ucla.edu</a>
<b>Jiang</b>	<b>Song</b>	Mondays	12:30 pm to 2:30 pm	<b>1D: BOELTER</b> 5420 / Friday / 4:00pm-5:50pm	<a href="mailto:songjiang@cs.ucla.edu">songjiang@cs.ucla.edu</a>
<b>Mahmoud</b>	<b>Zeina</b>	Fridays	08:00 am to 10:00 am	<b>1B: HAINES A18</b> / Friday / 10:00am-11:50am	<a href="mailto:zeina@cs.ucla.edu">zeina@cs.ucla.edu</a>

**GRADING:**

HOMEWORKS	30%	weekly
MIDTERM	30%	Wednesday October 30 (in class; 90 minutes)
FINAL	40%	Tuesday December 10, 2019 (11:30am-2:30pm )
Class Participation	<u>Very Important</u>	

Late policy: All homework are due Wednesday 10 am (before the class starts).

Late homework will NOT be accepted. Homework will be turned in via

Gradescope. See separate announcement for instructions.

**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.**

**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.