

U C L A

Computer Science Department

CS 180

Algorithms & Complexity

Fall 2011

Instructor: Majid Sarrafzadeh
3532C Boelter Hall
majid@cs.ucla.edu

CLASS TIME: MW 2 – 4 pm
OFFICE HOURS: MW 7:00 am to 8:30 am (or by appointment)
PLACE: FRANZ 2258 A
BOOK: “Algorithm Design” by Kleinberg - Tardos
CLASS PAGE: **CourseWeb**

DISCUSSION HOURS and TA

Bin Bi bbi@cs.ucla.edu DIS 1A F 2:00P 3:50P FRANZ 2258A
Office Hours: Mondays and Tuesdays 12:00pm to 1:00pm

Alex Afanasyev afanasev@cs.ucla.edu DIS 1B F 10:00A 11:50A FOWLER A139
Office Hours: Tuesdays and Wednesdays 10:00am to 11:00am

All TA office hours: BH 2432

GRADING:

HOMEWORKS		30%	(almost) weekly
MIDTERM	(1)	30%	Monday, October 24, 2011, in class
FINAL	(1)	40%	Thursday, December 8, 3:00pm-6:00pm

Class Participation Very Important

Late policy: All homeworks are due at the beginning of the class (2pm on Wednesdays). Late homeworks will not be accepted. Homework will be returned in your discussion hour on Fridays.

DESCRIPTION:

Prerequisites: course 32, Mathematics 61, junior standing in computer science.
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.