CSE 6331: Algorithms
Spring 2018
TuTh 12:45-2:05PM, Caldwell Lab 171

Instructor: Ten H. Lai
Office: 581 Dreese Labs
Office Hours: TuTh 11:30AM-12:30PM
Email: lai.1@osu.edu
http://www.cse.ohio-state.edu/~lai

Grader:
Soumik Mandal, mandal.32@osu.edu

Course Summary: Algorithm design paradigms; mathematical analysis of algorithms.

Objectives: Students will:

1. Augment their “tool box” of algorithm design techniques.
2. Learn how to analyze the efficiency of algorithms.


Prerequisites: Prereq: 2331 (680) or 5331. Not open to students with credit for 780.

Topics (tentative):

- 1.5 weeks Mathematical foundations
- 2.0 weeks Divide-and-conquer
- 2.5 weeks Dynamic programming
- 1.5 weeks Greedy algorithms
- 1.5 weeks Elementary graph algorithms
- 2.0 weeks Maximum flow
- 1.5 weeks Number-theoretic algorithms

Grading: Homework 20%, Midterm I 25%, Midterm II 25%, Final 30%.

Exam Schedule:
Midterm I: Thursday, February 15
Midterm II: Thursday, March 22
Final Exam: Thursday, April 26 2:00pm-3:45pm

General Policy:

- Late homework will not be accepted.