
CSE 5311 – Design and Analysis of Algorithms

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Overview

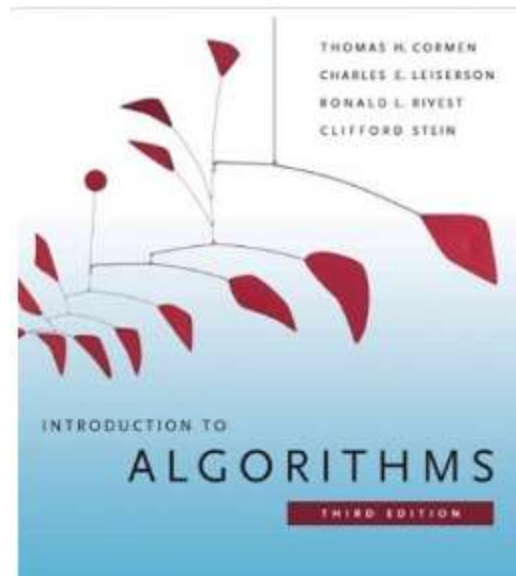
- Logistics
- The Text Book
- Grading policy
- Goals
- Course content

Logistics

- Class Schedule: Mon, 5:30pm – 7:20pm
- Location: NH 108
- Office hours: Mo & Th 4:00pm – 5:30pm
 - Office Location: ERB 322
- TA: Yushi Guo

The Text Books

- Introduction to Algorithms, 3e
by Cormen, Leiserson, Rivest, Stein
ISBN: 9780262259460 | Copyright 2009
- Course Website
 - Blackboard
 - Check often for latest updates



Grading

- Quiz: 10%, 4 times
 - Covers mainly content from last quiz
 - Closed books/notes
- Exams: 30%, Mid-year and 30% Final

Grading Scheme

- Final score will be rounded up
- Grading will be as follows
 - A – 90% and above
 - B – 80% - to – 89%
 - C – 70% - to – 79%
 - D – 60% - to – 69%
 - F – 59% and below

Goals

- Comprehensive understanding of Algorithms
- Applications
- Advanced research areas

Course Content and Schedule

Date	Topic
14-Jan	Introduction, Space, Time, Asymptotics
21-Jan	MLK Holiday
28-Jan	Recurrence, Median Finding Algorithm
4-Feb	Quicksort, BST, Heaps
11-Feb	QUIZ 1, Heapsort, Union Find
18-Feb	Red Black trees
25-Feb	QUIZ 2, Introduction to Graphs, BFS, DFS
4-Mar	Minimum Spanning trees: Kruskal's Algorithm, Mid-term review
11-Mar	Spring Break
18-Mar	Exam 1, Shortest Path
25-Mar	Network Flow, Bipartite Matching
1-Apr	QUIZ 3 Computational Geometry
8-Apr	Computational Geometry, String Algorithms
15-Apr	String Algorithms, Matrix and Large Number Multiplication, NP-Completeness
22-Apr	QUIZ 4 NP-Completeness
29-Apr	Review, Exam 2

Accommodation Based on Disability

If any accommodation based on disability, please let us know during the first week of the semester, so that appropriate arrangements can be made

You suggestions are encouraged

- Your suggestion on course content, communication, projects, organization are all welcome – better early than late, better late than never
- Questions!

BP

- I will loose my job if a get a grade less than a B grade.
- Can I request you to give me a 100 for the final quiz instead of the final project which would help me more towards getting a B.
- This is a sincere request from me as my family depends on me for a living back home. I have a father who does not support me financially, so my mother has put in all of her efforts for me to do my higher education. And if I loose this job I will not be able to support my family anymore, kindly please consider my request and please help me with the grade