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# CSE 5311 – Design and Analysis of Algorithms

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# Overview

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

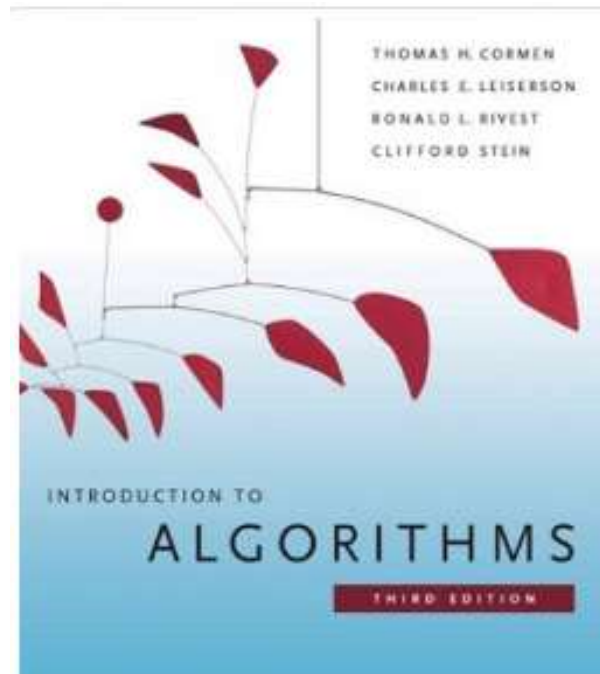
# Logistics

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- Class Schedule: Tuesdays, 7:00pm – 9:50pm
  - 6:30 pm to 9:20 pm?
- Location: NH 110
- Office hours: Mo & Tu 5:00pm – 7:00pm
  - Office Location: ERB 321
- TA: Zhidur Rahim Talukder

# The Text Books

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



# Grading

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

# Grading Scheme

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- 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

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- Comprehensive understanding of Algorithms
- Applications
- Advanced research areas

# Course Content and Schedule

Date	Topic
27-Jan	Introduction, Space, Time
3-Feb	Asymptotes, Recurrence
10-Feb	Median Finding Algorithm
17-Feb	Quicksort, BST, Heaps
24-Feb	QUIZ 1, Heapsort, Union Find
2-Mar	Red Black trees
9-Mar	Spring Break
16-Mar	QUIZ 2, Introduction to Graphs, BFS, DFS
23-Mar	Minimum Spanning trees: Kruskal's Algorithm, Mid-term review
30-Mar	Shortest Path, Exam 1
6-Apr	Network Flow, Bipartite Matching
13-Apr	QUIZ 3 Computational Geometry
20-Apr	Computational Geometry, String Algorithms
27-Apr	String Algorithms, Matrix and Large Number Multiplication, NP-Completeness
4-May	QUIZ 4 NP-Completeness
11-May	Review, Exam 2



# Accommodation Based on Disability

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If there is any accommodation required, based on disability, please let us know so that appropriate arrangements can be made

# No BP

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- 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

# Your suggestions are encouraged

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