Logistics: Textbook and Readings

For this course, we will require the textbook 'Introduction to Algorithms (3rd Edition): Cormen, Leiserson, Rivest and Stein' from MIT Press, known through the field as CLRS.

CLRS serves as the undergraduate and graduate textbooks for this topic and additionally is a very useful reference when programming/implementing/thinking about algorithms and data-structures due to its broad coverage of many topics. The textbook is available through many online retail websites including Amazon. We recommend the third edition of the book.

An earlier version of the book may be acceptable but may miss a few of the advanced topics.

If you are a CU Boulder student you can get online access to this text through our libraries: CU Libraries

It is possible to "survive" the material without CLRS: there are many great resources online but they are of varying quality. One particularly high quality resource are the notes created by Prof. Jeff Erickson from the University of Illinois.

Many of the topics covered here are also part of Prof. Erickson's notes but the notation may differ and some of the techniques used to derive the key algorithms and their analysis may be different.

The delightful and engagingly written book *Grokking Algorithms by Aditya Bhargava* covers some of the topics is a good text to read but will not cover everything we will talk about in this class.

✓ **Completed**

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