

CSE 680 - Introduction to Analysis of Algorithms and Data Structures

Lectures: MWF 12:30pm–13:18pm, Bolz Hall 313

Instructor: Luis Rademacher

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Web page: Go to <http://www.cse.ohio-state.edu/~lrademac/>, then “Teaching”, then “Au11”.

Office hours: W 2:30pm–3:30pm or by appointment.

Grader: to be announced.

Textbook: Introduction to Algorithms, Second or Third Edition by Cormen, Leiserson, Rivest and Stein

Other books: Algorithms by S. Dasgupta, C.H. Papadimitriou, and U.V. Vazirani (free draft available).

Prerequisites

560 or 668 or ECE 668; Stat 427; Math 566. Some of this can be found in the appendix.

About the course

Despite the word “introduction” in the title, the course is not superficial. The course demands basic mathematical maturity and will involve some proofs.

Topics (tentative)

Selected sections from chapters 2–9, 11, 22–25, 34.

Grading (tentative)

Homework every two weeks. May include some programming. No late homework will be accepted. For homework, collaboration is allowed, but every student must write and submit his or her own solutions, and include an explanation of any such collaboration. Looking for solutions from external sources (books, the web, etc.) is prohibited.

One midterm and one final exam.

Formula (tentative): 30% homework, 30% midterm, 40% exam.