Introduction

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CS 624, Lecture 01

Information

The course web page:

`https://www.cs.umb.edu/~ryanc/cs624/`

Everything is linked from there:

- the syllabus (course policies)
- the schedule of lectures
- office hours
- etc.

Resources

Textbook

Introduction to Algorithms, 3rd ed. by Cormen, Leiserson, Rivest, and Stein (2009). Other editions should be fine, but watch page numbers.

Discussion forum

Discord; invitation on course page
Change your server name to be recognizable.

Homeworks

Gradescope; register with your `@umb.edu` email
You will be added to this course's Gradescope roster automatically.

Work and Grading

Grade breakdown:

- **Homework** — 20%, submitted via Gradescope
- **Midterm exam 1** — 20%
- **Midterm exam 2** — 20%
- **Final exam** — 40%

You must pass the final exam to pass the course.

≥ 90	≥ 75	≥ 60	< 60
A	B	C	F

Policies

Attendance

Attendance is required but not directly graded. You are responsible for knowing everything covered in lecture, whether you are here or not.

Homework

- Homework should be typed. See course page for resources.
- Late homework is not accepted without good reason.

Academic Integrity

All submitted work must be completely yours — that is, written from scratch, in your own words, without reference to anyone else's work.

Read the syllabus for more details and for additional policies.

Policies

Grading

Grades are not negotiable. Do not ask for grade adjustments without an argument that the grader made a mistake.

Requires Mathematics

This is a math class, not a programming class.
Consider dropping if you did not do well in CS 220.

Goals

Skills

- methods for analyzing and developing algorithms
- run time analysis and growth rate
- best-case, worst-case, average-case analysis; amortized analysis

Concepts

- sorting and searching
- dynamic programming
- greedy algorithms
- graph algorithms and their applications
- NP-completeness, NP-complete problems, reductions

Your Action Items

- Bookmark the course web page.
- Register for Gradescope with your `@umb.edu` address.
- Join the course Discord server/channel.
- Start reading the textbook.