

CSCI-320 Algorithm Analysis
Course Syllabus
Fall 2026

Course Description

This course covers the principles of algorithm design and analysis. Different approaches to design such as divide and conquer, greedy, and dynamic programming are covered. Advanced data structures beyond the basic lists, stacks and trees are also introduced such as red-black and AVL trees. Proving the correctness of algorithms and analysis using advanced techniques such as the master theorem are covered. Tractability of algorithms is discussed including NP-Completeness.

Instructor

Eric McGregor, Ph.D.
Office: McKinney Center, Room 243
Office Hours: Posted outside my office.

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Lectures

Lectures are held on MWF, 2:00 p.m. - 2:50 p.m. in McKinney 223

Course Materials

Introduction to Algorithms
ISBN: 9780262367509
By Cormen, Leiserson, Rivest, Stein
Published by Random House Publishing Services
Publication date: April 5, 2022

Course Website: <https://artfulmonkeys.xyz/work/teaching/courses/csci320/2026fall>.

Grading

During this course you will be evaluated on pop-quizzes, 3 exams given during lecture, and a comprehensive final exam given on Thursday, December 10 @ 8:00 a.m.

The tentative schedule for the 3 mid-semester exams is:

- Exam 1 - Wednesday, September 23
- Exam 2 - Wednesday, October 28
- Exam 3 - Monday, November 23

Final numeric grades are based on the following percentages:

	Percentage of Final Grade
Quizzes	20
Exam 1	20
Exam 2	20
Exam 3	20
Final Exam	20

Course and Classroom Policies

Course and Classroom Policies for Fall 2026 can be found on the course website.

This syllabus may be adjusted throughout the course at the discretion of the instructor.