

COURSE INFORMATION

Location: MTH 115
Class Times: MWF 13:00-13:50
Instructor: Dr. Karl Frinkle
Office: MTH 208
Office Hours: MTWRF 9:00-9:50, or by appt.
Office Phone: (580) 745-2028
E-mail: kfrinkle@sosu.edu
Website: <http://www.sosu.edu/faculty/kfrinkle>

TEXT *Discrete Mathematics with Applications*, by Thomas Koshy

COURSE OVERVIEW The goal of this course is to develop a deep understanding of the mathematics behind many of the abstract ideas and concepts used in many areas and disciplines of Computer Science. To this end, we will examine some, and perhaps all, of the following topics: logic and truth tables, Boolean algebras, sets, equivalence relations, functions, algorithms and their complexities, Mathematical induction, graph theory, trees, recursion and permutations and combinations.

As a general education course, this course will satisfy the goal of the mathematical or quantitative reasoning component of general education: to develop the ability of students to understand and apply mathematical abstraction. As such, students will (1) solve problems using the principles of algebra or symbolic logic; (2) apply mathematical reasoning to analyze and interpret quantitative information; and (3) use and interpret mathematical formulas.

COURSE OUTLINE Various topics from the required text will be covered. In particular, we will attempt to cover most of chapters 1, 2, 3, 4, 5, 6, 7, 8, 9 and 12. Various other topics might also be covered, including anything that the class as a whole might be interested in.

POLICIES Although it will not be counted towards your final grade, attendance is critical for you to do well. Please show up for each and every class, and do so on time.

Cheating will not be tolerated in any shape or form. If you are caught cheating, it will be reported to the appropriate academic offices, and appropriate action will be pursued.

You will not be able to make up a quiz or test or receive credit for any other assignment which you missed the deadline for unless you notify me ahead of time. If you are going to miss a class, please let me know ahead of time, and I will ensure that you can take a quiz early, or make it up afterwards if one is to be given that day. The same goes for homework and projects.

All cell phones, pagers, CD players, laptops, calculators and other such devices must be turned off and put away before class begins. It is also expected that everyone will behave in a kind and courteous manner towards fellow students and the instructor.

GRADES

Your final grade will be based upon the following items

- 35% - Quizzes - given randomly, without warning
- 35% - Homework - required to be handed in on a regular basis
- 10% - Class participation - interaction during class, and in projects/presentations
- 20% - Final Exam - exam covering all of the material from the semester

SPECIAL
ACCOMMODATIONS

Any student needing special accommodations due to a physical, mental or learning disability should contact Mrs. Susan Dodson, the Coordinator for Student Disability Services, Hallie McKinney, Room 111B or call (580) 745-2394 (TDD# 745-2704). It is the responsibility of each student to make an official request to the Coordinator for Student Disability Services for all academic accommodations due to a disability. For copies of disability related policies, please contact Student Services (Administration Building, Room 205) or Student Support Services (Hallie McKinney, Room 111B).