CS 320 Applied Discrete Mathematics - Fall 2017

Class meeting: Tue & Thu 5:30PM-6:45PM, University Hall Y01-1300
Instructor: Dr. Duc A. Tran, duc.tran@umb.edu, office hours: Tue & Thu 3:15PM-5:15PM

Note: I will communicate with you via your official umb.edu account. You may have email redirected from your umb.edu address to another address. The University is not responsible for the handling of email by outside vendors or by departmental servers. There is no homework but the questions for the tests and final exam will be from the textbook and so it is important you try as many exercises in the textbook as possible. If you have questions see me during my office hours.

Course Description

An introduction to the mathematical structures and concepts used in computing: logic, sets, functions, sequences, induction and recursion, counting, relations, graphs, etc. Formal mathematical proofs are also taught. Prerequisites are CS 210 and Math 260 or permission of the instructor.

Text

Discrete Mathematics and Its Applications, latest edition recommended, by Kenneth H. Rosen, WCB/McGraw-Hill.

Topics (tentative)

- Chapter 1: 1.1 – 1.8
- Chapter 2: 2.1-2.4, 2.6
- Chapter 4: 4.1-4.4
- Chapter 5: 5.1-5.3
- Chapter 6: 6.1-6.3
- Chapter 8: 8.1, 8.5
- Chapter 9: 9.1-9.3, 9.5
- Chapter 10: 10.1-10.5
- Plus other topics in the book if time permits

Evaluation

There will be 3 tests and 1 final exam. Your final grade will be computed as follows:

- Test 1 20%
- Test 2 25%
- Test 3 25%
- Final Exam 30%
- No makeup exam is allowed.

Accommodations

Section 504 of the Americans with Disabilities Act of 1990 offers guidelines for curriculum modifications and adaptations for students with documented disabilities. If applicable, students may obtain adaptation recommendations from the Ross Center for Disability Services, M-1-401, (617-287-7430). The student must present these recommendations and discuss them with each professor within a reasonable period, preferably by the end of Drop/Add period.

Student Conduct

Students are required to adhere to the University Policy on Academic Standards and Cheating, to the University Statement on Plagiarism and the Documentation of Written Work, and to the Code of Student Conduct as delineated in the catalog of Undergraduate Programs, pp. 44-45, and 48-52. The Code is available online at:
http://www.umb.edu/student_services/student_rights/code_conduct.html