CS 1800
Discrete Structures
Fall 2014

http://www.cns.uni.edu/~mccormic/1800/

Instructor

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Course Content

The goal of this course is to lay the mathematical foundation for computer science courses such as data structures, algorithms, database, compiler design, formal languages, programming languages, and cryptography. A mathematical approach is imperative to writing reliable software. The skills you develop in this course will provide you with the ability to verify that your software is correct before you run it.

Prerequisites

A mathematical background sufficient to take college calculus.

An introductory programming course (e.g. CS 1130, CS 1160, or CS 1510)

Required Text

Mathematical Structures for Computer Science (7th edition) by Judith L. Gersting, W. H. Freeman, 2014, ISBN 978-1-4292-1510-7.

There is a companion web site available for this textbook at http://bcs.whfreeman.com/gersting7e that has tutorials for most of the topics we cover in this class. I have provided a link to this web site on the class home page.

Save this book. You will use it as a reference in many advanced Computer Science courses.

Reading and Homework Assignments

Are posted after class on the class home page   **http://www.cs.uni.edu/~mccormic/1800/**
E-mail me if you don't see an assignment posted the afternoon following class.

Written Quizzes

I will give a short quiz every Wednesday. You may use any <u>handwritten</u> notes to help you answer the quiz questions. You may **not** use any books, old quizzes, class handouts, photocopies, or printouts. Many of the quiz questions will come from the questions assigned from the textbooks. Be sure to do the reading and write your answers to the assigned questions in your notebook.

Final Exam

A comprehensive final exam for this course will be given 1:00 – 2:50 pm Tuesday December 16th. As with the quizzes, you may use any <u>handwritten </u>notes. You may **not** use any books, old quizzes, class handouts, photocopies, or printouts.

Electronic Devices in the Classroom

Cell phones, MP3 players, iPods, pagers and PDA's must be turned off during class. Use of personal laptops in class is not permitted. This is due to past problems with people using laptops in class to email, chat, IM, browse, play games, work on assignments for other classes, display images/videos, etc. These activities are incompatible with a college classroom and create a distraction to neighbors and people seated in rows further back. As a result, the UNI Faculty Senate has established a policy that laptops may not be used without instructor consent.

Grading

The final grade will be computed as follows:

Written Quizzes	**75%**
Final Exam	**25%**

"The Americans with Disabilities Act of 1990 (ADA) provides protection from illegal discrimination for qualified individuals with disabilities. Students requesting instructional accommodations due to disabilities must arrange for such accommodation through the Office of Disability Services. The ODS is located at: 213 Student Services Center, and the phone number is: 273-2676."