Welcome to
CS220/MATH 320 –
Applied Discrete Mathematics

Fall 2018
Instructor: Marc Pomplun

Instructor – Marc Pomplun
Office: S-3-171
Lab: S-3-135
Office Hours: Tuesdays 4:30-5:30, 7:00-8:00
Thursdays 4:30-5:30
Phone: 287-6443 (office)
E-Mail: marc@cs.umb.edu
Website: http://www.cs.umb.edu/~marc/cs220/

The Visual Attention Lab

Eye movement research

The new EyeLink-2K System

Example: Distribution of Visual Attention

Selectivity in Complex Scenes
Modeling of Brain Functions

Unit and connection in the interpretive network
Unit and connection in the gating network
Unit and connection in the top-down bias network

Now back to the Course:

Course Kit:
Discrete Mathematics by zyBooks
Interactive Online Book
Cost: $58

1. Sign in or create an account at learn.zybooks.com
2. Enter zyBook code: UMBCS220MATH320PomplunFall2018
3. Subscribe

Course Website

Important! Course homepage:
http://www.cs.umb.edu/~marc/cs220/
- Contains all kinds of course information and also my slides in PDF and PPTX formats,
- Is updated after each session because some slides contain questions and answers that would become useless if you had the slides in advance.

Your Evaluation

- Weekly online homework plus 4 sets of exercises to be submitted as hard copy or by email (only individual submissions allowed) 20%
- Midterm (75 minutes) 35%
- Final exam (2.5 hours) 45%
Grading
For the assignments, exams and your course grade, the following scheme will be used to convert percentages into letter grades:

\[ \begin{align*}
\geq 95\%: & \ A \\
\geq 90\%: & \ A- \\
\geq 86\%: & \ B+ \\
\geq 82\%: & \ B \\
\geq 74\%: & \ C+ \\
\geq 70\%: & \ C \\
\geq 66\%: & \ C- \\
\geq 56\%: & \ D \\
\geq 50\%: & \ D- \\
< 50\%: & \ F
\end{align*} \]

Academic Dishonesty
You are allowed to discuss problems regarding your homework with other students in the class.
However, you have to do the actual work (computing values, writing algorithms, drawing graphs, etc.) by yourself.
You cannot copy anything from other sources (Wikipedia, other students’ work, etc.)
The first violation will result in zero points for the entire homework or exam (and official notification).
The second violation will result in failing the course.

Complaints about Grading
If you think that the grading of your homework was unfair, please talk to the TA (to be announced).
If you are still unhappy afterwards, please talk to me.
If you think that the grading of your midterm exam was unfair, please indicate your concerns by putting sticky notes or attaching an extra sheet and give it to me or put it into my mailbox.

Why Care about Discrete Math?
• Digital computers are based on discrete “atoms” (bits).
• Therefore, both a computer’s – structure (circuits) and – operations (execution of algorithms) can be described by discrete math.
• Most importantly, software engineers need to have a solid background in discrete mathematics in order to develop appropriate algorithms for given problems.

Syllabus
• We will look at a variety of materials in discrete mathematics that are useful to software engineers.
• Do not expect the course to tell you a coherent “story” or develop a “big picture view.”
• Instead, we will study a collection of useful things.
• Let us just take a look at the syllabus on the course homepage…

http://www.cs.umb.edu/~marc/cs220/