

Syllabus - CSC 230 Discrete Math

Term:	Winter 2019
Class times:	Tue, Thu @ 10:00 - 11:50 am at Wentz Science Center, Room 101
First class:	Thu Jan 3, 2019 @ 10:00 am

Noctrl Description

Here's the official Noctrl description of our class:

(Same as: MTH 230.) Fundamental topics in mathematics and computer science including formal logic, proof techniques, sets, relations and functions, combinatorics, graphs, Boolean algebra, logic circuits and finite state machines.

Source: catalog.northcentralcollege.edu/preview_course_nopop.php?catoid=9&coid=8682

Instructor

My name is Bill Krieger. I'm a part-time professor in the Computer Science department at North Central College. My office hours are listed on my website, wtkrieger.faculty.noctrl.edu.

The best way to contact me is via email: wtkrieger@noctrl.edu.

Textbook

Rosen is (pretty much) the standard textbook on this topic.

- Discrete Mathematics and Its Applications, **Seventh Edition** by Kenneth H. Rosen
Publisher's website:

www.mheducation.com/highered/product/discrete-mathematics-applications-rosen/M0073383090.html

Grading

Your final grade will be comprised of:

- Homework/classwork, 20%
- Exam #1, 25%
- Exam #2, 25%
- Final exam, 30%

The standard North Central College grading scale will be used. It's spelled out here:
www.northcentralcollege.edu/academics/registrar-and-support-services/registrar/plusminus-grading

The college rules on academic integrity will be strictly enforced. Plagiarism is a severe offense and will not be tolerated. Here's the official Noctrl CSC link:
www.northcentralcollege.edu/computer-science/department-plagiarism-policy

Late work will not be accepted without prior approval. Please see me if you have an issue meeting a course deadline.

The Plan

The best-laid plans of mice and men... this is subject to change.

Week	Description
1	Ch 1.1 - 1.3 Prop logic;
2	Ch 2.1 - 2.2 Sets; Ch 12.1 - 12.3 Boolean algebra
3	Ch 1.4 - 1.8 Logic and proofs; Ch 5.1 Induction
4	Catch-up/review; Exam #1
5	Ch 2.3 - 2.6 Functions++
6	Ch 6 Counting; Permutations/Combinations
7	Ch 9 Relations; Catch-up/review
8	Exam #2 ; Ch 4 Number Theory and Crypto
9	Ch 13 Grammars, FSM
10	Ch 10 Graph algorithms
11	Catch-up/review; Final exam