

ENGR 213: Discrete Structures for Computer Applications

Instructor

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Office Hours: M, W: 5:15 PM – 6:30 PM, F: 9:30 AM – 12:00 noon, or by appointment.

Textbook: *Discrete Mathematics and Its Applications*, 5th edition by K. H. Rosen

Prerequisite Courses: CPSC 150/150L (Computers and Programming I)

Prerequisite Topics (assumed knowledge):

- Understanding of college algebra (very important!)
- Understanding of basic calculus
- Fundamentals of programming

Course Goals

The following is a list of selected objectives in two ratings (you will need this information for the course evaluation later this semester):

I = important

E = essential

Gaining factual knowledge (terminology, classifications, methods, trends): I

Learning fundamental principles, generalizations, or theories: E

Learning to apply course material (to improve thinking, problem solving, and decisions): I

Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course: I

Catalog Description

The concepts of modern algebra (symbolic logic, set theory, algebraic structures, groups, fields, lattices, and Boolean algebra) applied to sequential machines and computer system design. Emphasis on applications to realistic problems in computer science and engineering.

Grading Policy

Final grades will be based on the following distribution:

Projects / Assignment 10%

Tests 90%

Tests in the course will be based on the following arrangement:

1 short tests @ 50 points each	50 points
2 regular tests @ 100 points each	200 points
Final exam	150 points
Total	400 points

The date and material of the tests will be announced before they are given (normally a week for regular test, and a class for short test).

Makeup Tests

There will be no makeup tests. Excused absences from tests will be assigned the equivalent percentage achieved on the final exam. Unexcused absences will be handled similarly with a penalty of 20%. In order to be excused for missing a test, it is imperative that you alert me to your individual situation (and receive approval from me) **prior to** the test date.

Homework/Projects

Homework is assigned at the end of each class. It is your responsibility to complete the homework in a timely manner. Fail to keep up with homework will leave the student unprepared for exams. It is important to consult your instructor or other students when you encounter any problems in your homework. Usually the biggest contributor to excessive time spent on homework is failure to read the text or notes for understanding prior to attempting problems.

Some assignments are required to be turned in. Late work will be docked 25% if it is no more than one week late, unless arrangements made in advance (except the last assignment, which needs to be turned in before the final exam week).

Disability Statement

If you believe that you have a disability, you should make an appointment to see me to discuss your needs. In order to receive an accommodation, your disability must be on record in Disability Support Services, Room 101, McMurrin Annex (Telephone: 594-8852).

Student Success

We want you to succeed at CNU; therefore I may notify the Academic Advising Center if you seem to be having problems with this course. Someone may contact you to help you determine what help you need to succeed. You will be sent a copy of the referral form. I invite you to see me at any time that I can be of assistance in helping you with the course material.

Additional Note

I am strongly committed to continually improving every course I teach, and student feedback is essential for making improvements. Your feelings about the course (good or bad) are very important to me. Any feedback (ideas, suggestions, comments) you can provide would be greatly appreciated.