

# CSCE 235: Introduction to Discrete Structures

Spring 2007

**Time:** Mondays, Wednesdays, and Fridays, 12:30–1:20 p.m.

**Location:** Avery Hall 109

**Web page:** <http://cse.unl.edu/~bkell/235-2007s/>

**Instructor:** Brian Kell

**Office:** Avery Hall 235 (in the math department)

**Office phone:** 402-472-8051

**E-mail:** [bkell@cse.unl.edu](mailto:bkell@cse.unl.edu)

**Mailbox:** 83 (math office, Avery Hall 203)

**Office hours:** Tuesday, 2:30–4:30 p.m.

Thursday, 1:30–3:00 p.m.

If you need to meet at a different time, please e-mail me or call to set up an appointment.

**Prerequisites:** CSCE 155/155H, MATH 106/108H or equivalent.

**Textbook:** Kenneth H. Rosen. *Discrete Mathematics and Its Applications*. Sixth edition, McGraw-Hill, 2007.

## Course objectives

The objective of this course is to familiarize students with some fundamental concepts in mathematics that are useful for problem solving and software design in computer programming. Essentially, this class aims to equip students with powerful tools for their further study in computer science in general, and wonderful ideas for solving programming problems in particular.

Topics covered in this course will include propositional and predicate logic, methods of proofs, sets and relations, functions, mathematical induction, counting, combinatorics, recurrence relations, graphs and trees, and asymptotic notations.

## Expectations

You are expected to prepare for class, which includes reading the assigned sections before class. Be respectful of me and your fellow classmates. Make sure that your cell phone does not ring in the middle of class.

You are also expected to be honest. Cheating in this course will not be tolerated. All work in this course must be completed in accordance with the Student Code of Conduct found in the 2006–2007 Undergraduate Bulletin, available online at <http://www.unl.edu/unlpub/undergrad/>. Academic dishonesty of any kind will be dealt with in a manner consistent with the Computer Science and Engineering Department's Policy on Academic Integrity, available at [http://cse.unl.edu/undergrads/academic\\_integrity.php](http://cse.unl.edu/undergrads/academic_integrity.php). You are expected to know and abide by this policy.

If you miss a class, you are responsible for learning the material on your own. Be sure to check the course Web page for information about what was covered, and talk to me or your fellow classmates if you need help.

## Grading

Final grades in this class will be assigned based on the following scale.

A	94%–100%
A–	90%–93%
B+	87%–89%
B	83%–86%
B–	80%–82%
C+	77%–79%
C	73%–76%
C–	70%–72%
D+	67%–69%
D	63%–66%
D–	60%–62%
F	below 60%

An A+ will be awarded to students whose work and understanding of the class prove to be exceptional.

There will be about eight to ten homework assignments, some of which will be programming assignments. There will also be two exams, one comprehensive final, and several pop quizzes. The contribution of each of these to your grade for the course is given below.

Homework	45%
Exams	30%
Final	20%
Pop quizzes	5%