



Math 375 — Discrete Structures

Fall 2018

Instructor: Ben Salisbury, Associate Professor
 <http://people.cst.cmich.edu/salis1bt>
 ben DOT salisbury AT cmich DOT edu

Meeting Times: 9:30am–10:45am in Pearce 206H

Course Text: L. Lovász, J. Pelikán, and K. Vesztergombi, *Discrete Mathematics: Elementary and Beyond*, Springer-Verlag, New York, 2003.

Additional References: Norman L. Biggs, *Discrete Mathematics*, second edition, Oxford University Press, 2002.

Richard A. Brualdi, *Introductory Combinatorics*, fifth edition, Prentice Hall, 2010.

Objectives: A good chunk of the course text will be covered; in particular, the relation between set theoretic operations and computer operations, applications of graph theory, graphical algorithms, and discrete algebraic structures. This roughly corresponds to Chapters 1–4, 7–10, and 12–13 of the course text. Some sections and examples may be reading assignments. Students are responsible for understanding these reading assignments and to take the initiative to communicate with the instructor if any difficulty occurs.

Homework. Homework will be assigned on a weekly basis. Each assignment will have a collection of problems, from the course text and possibly from elsewhere. However, on each assignment, only one problem will be selected to be graded (and the same problem will be selected for each student on a given assignment). Since this problem will be chosen at random, all exercises should be completed. Late homework will *not* be accepted.

Exams. There will be three midterm exams (see below) and a final exam on Tuesday, December 11, 2018, 10:00am–11:50am. Absolutely no make-up exams will be given without prior permission of the instructor. Validity of excuses is determined by the instructor. If an emergency happens on the day of an exam, a notice within 24 hours of the start of the scheduled exam is required in order for make up of the missed exam to be considered. All decisions about makeup exams and exceptions to the above policy are at the discretion of the instructor. No calculators are allowed in midterms and final exams.

Grading Breakdown

Homework	Weekly	20%
Exam 1	Thursday, September 20, 2018 in class	20%
Exam 2	Thursday, October 18, 2018, in class	20%
Exam 3	Thursday, November 15, 2018, in class	20%
Final Exam	Tuesday, December 11, 2018, 10am–11:50am	20%

Additional Notes

- Blackboard will be incorporated to some extent in this course. If you have a technical issue related to Blackboard, please contact the OIT Help Desk at

☎ (989) 774-3662,

💻 helpdesk.cmich.edu, or

✉ helpdesk@cmich.edu.

- CMU provides students with disabilities reasonable accommodation to participate in educational programs, activities, or services. Students with disabilities requiring accommodation to participate in class activities or meet course requirements should first register with the office of Student Disability Services (120 Park Library, telephone: 989-774-3018, TDD 989-774-2568), and then contact me as soon as possible.
- For important dates this semester campus-wide, including add-drop deadlines, see

<https://www.cmich.edu/ess/registrar/Documents/calendars/Calendar%20-%20Template%20-%20Fall%202018.pdf>