

CSCI-210 Discrete Mathematics
Course Syllabus
Fall 2021

Course Description

This course focuses on the fundamentals of discrete mathematics applicable to computer science. The main goals are to learn the mathematical representation of collections of items and their relationships, selection and ordering of items, mathematical reasoning for proofs, model modeling, concepts about probability and computation theory. Topics include: Sets, Relations and Functions, Inductive and Deductive reasoning, Permutations and Combinations, Graphs, Probability, FSMs, PDAs, LBAs (or Regular, Context-Free, Context-Sensitive Grammars) and Turing machines.
Prerequisites: MATH-110

Instructor

Eric McGregor, Ph.D. Email: rmcgregor@bridgewater.edu
Office: McKinney Center, Room 220 Phone: 540.828.575
Office Hours: M (1pm-2pm), T (12pm-1pm), W (9am-10am), Th (12pm-1pm), or by appointment.

Lectures and Study Group Meetings

Lectures and study group meetings are mandatory.

Lectures are held on MWF @ 10:00 a.m. – 10:50 a.m. in McKinney 228.

- Lecture will not meet on Monday, September 6

Study group meeting times are negotiated by the study group members.

Course Materials

Kenneth H. Rosen
Discrete Mathematics and its Applications, Eighth Edition
ISBN: 9781259731280

Course Website: <http://n0code.net/work/teaching/courses/csci210/2021fall>.

Grading

During this course you will be evaluated on 5 topical exams given during lecture and a comprehensive final exam given during finals week.

Tentative dates for the 5 topical exams:

- Exam 1 – Wednesday, September 8
- Exam 2 – Wednesday, September 29
- Exam 3 – Friday, October 15
- Exam 4 – Friday, October 29
- Exam 5 – Monday, November 15

The Final Exam will be held Tuesday, December 7 at 8:00 a.m.

Final numeric grades are based on the following percentages:

	Percent of Final Grade
Exam 1	13
Exam 2	13
Exam 3	13
Exam 4	13
Exam 5	13
Final Exam	35

Course and Classroom Policies

Course and Classroom Policies for Fall 2021 can be found at <http://n0code.net/work/teaching/syllabi/>.

This syllabus may be adjusted throughout the course to provide for maximum student learning and contextual changes within the community of learners.