ECE 312 Discrete Mathematics
Syllabus
Rutgers, Spring 2019

Instructor: Salim El Rouayheb, Email: salim.elrouayheb@rutgers.edu

Course Description : Basic mathematical modeling is at the heart of engineering. In both electrical and computer engineering, many systems must be modeled using discrete formulations. This course will give students the foundations in discrete mathematics needed to model modern computer systems. Students will be introduced to the mathematical tools of logic and set theory, combinatorics, number theory, and graph theory.

Place & Time: M/W 3:20-4:40 PM, at RWH 105

Office Hours: M/W 4:40-5:40 PM, at CoRE 717

Textbook: Kenneth R. Rosen, *Discrete Mathematics and its Applications*, Seventh Edition, McGraw-Hill, 2007.

TAs: Rawad Bitar (email: rawad.bitar@rutgers.edu) and Serge Kas Hanna (email: serge.k.hanna@rutgers.edu).

TAs Office Hours: Serge Kas Hanna: Tuesday 10:00-11:00 AM, at EE 226. Rawad Bitar: Thursday 2:00-3:00 PM, at EE 226.

Piazza: I will be using Piazza for posting class announcements, problems assignments for the quizzes and class discussions. Rather than emailing me questions, I strongly encourage you to post your questions on Piazza, where you can get help fast and efficiently from your classmates and myself. Find our class page at: https://piazza.com/rutgers/spring2019/ece312/home.

Course Webpage: http://eceweb1.rutgers.edu/csi/DiscMath19.html.
I will mainly be using Piazza for posting problems assignments and course announcements. Sakai will be used for communicating grades.

Grading: The grade for the class will be based upon quizzes, two exams and a final exam:

- Quizzes: (15%)

- Exams: (2 at 25% each)

- Final Exam: (35%)