Course Description. Algorithms, Induction, Recursion, Asymptotics, Relations, Graphs

Prerequisites. CSCI 111, MATH 120 and 151 or 141.

Required text:
Kenneth H. Rosen:
*Discrete Mathematics and its Applications, 7th Edition*
McGraw_Hill, 2012,

Learning Goals. A solid understanding of the fundamental concepts of discrete structures. Successful students will be able to understand and solve problems involving Big-O notation, algorithmic complexity, induction, recurrences, relations and graphs.

Course Topics:
- Algorithms (Chapters 3)
- Induction and Recursion (Chapter 5)
- Advanced Counting Techniques (Chapter 8)
- Relations (Chapter 9)
- Graphs (Chapter 10)

Instructor:
Krishna Mahavadi
kmahavadi@qc.cuny.edu
office: SB A201
office hours: Monday, Tuesday 12:30pm – 1:30pm
or by appointment.

Course Website:
http://venus.cs.qc.edu/~krishna/cs220/

Classes:
Monday, Tuesday, Wednesday and Thursday,
8:00 – 9.34am, SB B141 (5062)
10:00 – 11:34am, SB B141 (5063)

Requirements:
One in-class midterm exam and the final exam (cumulative).
After each chapter or unit of chapters there will be a quiz.
Dates for quizzes are given on the course website.
In total there are 7 quizzes. All the 7 quizzes will be counted.

The final counts for 50% of the course grade.
Midterm counts for 25% of the grade.
Quizzes count for a total of 25% of the course grade.
Exam dates:
Midterm: Monday, July 30th, 2018
Final: Monday, August 13th, 2018

Policies: You will be given 5 questions from each section that we cover. It is your responsibility to work through these problems as they will not be graded. However, quiz questions will either be very similar or taken from them. There will be no makeup quizzes or extra credit homework. Any score less than 60 points after the final exam will be given at most a C- for the class. So, please begin learning from day one.

Absentees are solely responsible for catching up. No make up exams except for a documented approved absence. Academic dishonesty such as plagiarism or cheating will be dealt with seriously in accord with the University’s policy on academic integrity.