Advanced Data Structures

Syllabus

Class meets: Mondays 6:30-8:30 P.M.

Room: TBA.

Office: 1430N (Brooklyn College)

Office Hours After class in the classroom.

E-mail: noson@sci.brooklyn.cuny.edu

Grade:

Midterm: 30%
Project: 40%
Final: 30%

Required Texts:

*Advanced Data Structures*
by Peter Brass
(Cambridge University Press, 2008).

*Introduction to Algorithms, 3rd Edition*
by Thomas H. Cormen, Charles E. Leiserson,
Ronald L. Rivest and Clifford Stein
(The MIT Press) 3rd Edition
Chapters: 11, 13, 14, and 18-21.

There will also be hand-outs about quantum computing and machine learning.

We will cover much of the Brass book.

For the project, every student will have to take a type of data structure and implement the structure. All operations will be dealt with. Data will be used to show the workings of the data structures, operations, and your implementation. A report will have to be written about your work.