

# Advanced Data Structures

## Syllabus

<b>Class meets:</b>	Mondays 6:30-8:30 P.M.
<b>Room:</b>	TBA.
<b>Office:</b>	1430N (Brooklyn College)
<b>Office Hours</b>	After class in the classroom.
<b>E-mail:</b>	noson@sci.brooklyn.cuny.edu
<b>Grade:</b>	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.