QuickGuide for Computer Science - Mathematics

The goal of this interdepartmental major is to provide substantial background in each of these two disciplines, focusing on some of the parts of each which are closest to the other. Students intending to pursue a PhD program in either discipline are urged to take additional courses, in consultation with their advisors.

The program requires a total of at least 46 points: 20 points in Computer Science, 21 points in Mathematics, and two 3-point electives in either CS or Maths.

Computer Science:

COMS W1004 Intro to CS & Programming in Java or COMS 1007 Honors Intro to CS
COMS W3134 Data Structures in Java or COMS 3137 Data Structures and Algorithms
COMS W3157 Advanced Programming
COMS W3203 Discrete Maths
COMS W3261 Computer Science Theory
CSEE W3827 Fundamentals of Computer Systems

Mathematics:

One of the following sequences:

1) MATH V1101, MATH V1102, MATH V1201, and MATH V1202
2) MATH V1207, MATH V1208

Each of the following:

MATH V2010 (unless MATH V1207 and MATH V1208 are taken)
MATH W4041
MATH V3951 or MATH V3952

Electives:

Two of the following:

CSOR W4231 Analysis of Algorithms
COMS W4241 Numerical Algorithms and Complexity
MATH V3020
MATH BC2006
MATH W4061
MATH V2500
MATH V3007
MATH V3386
MATH W4051

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