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 44-47 points: 19-20 points in Computer Science, 19-21 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 three Calculus and Linear Algebra sequences:

- 1) MATH UN1101, UN1102, UN1201, UN1202, UN2010
- 2) MATH UN1101, UN1102, UN1205, UN2010
- 3) MATH UN1101, UN1102, UN1207, UN1208

Each of the following:

MATH UN3951 or MATH UN3952 MATH GU4041

Electives:

Two of the following:

CSOR W4231 Analysis of Algorithms

COMS W4241 Numerical Algorithms and Complexity

MATH UN3020

MATH BC2006

MATH GU4061

MATH UN2500

MATH UN3007

MATH UN3386

MATH GU4051