Minicourse Information

MIT Course

This minicourse is based on the MIT course 6.042 *Mathematics for Computer Science*, which covers discrete mathematics and probability. Written notes from the various times that the course has been taught are available at:

`http://theory.lcs.mit.edu/classes/6.042/`

Staff

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Schedule

Lectures will be held in room E51-395.

Proofs, Induction	Monday, July 30	10 – noon
Probability	Tuesday, July 31	10 – noon
Expectation	Thursday, August 2	2:30 – 4

How to Learn More

Two textbooks are used for the full-length version of this course at MIT. *The Nuts and Bolts of Proofs* by Antonella Cupillari is a small book with content similar to our first lecture. In contrast, *Discrete Mathematics and Its Applications* by Kenneth Rosen is an 800-page text.

Sections 3.1 and 3.2 of Rosen's book cover our first lecture, and sections 4.4 and 4.5 (very briefly) cover the second and third. A good set of 6.042 notes covering the same material is available at:

`http://theory.lcs.mit.edu/classes/6.042/spring01/handouts/fall97/homepage.html`

Particularly relevant are lectures 1 and 2 (on proofs and induction), 18 (on probability), and 22 (on expectation).