

Computer Science Department

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To: Professor Tsu-Chin Tsao, FEC Chair

From: Richard Korf, Vice Chair for Undergraduate Programs, Computer Science
Department
Amit Sahai, Chair of Computer Science Department
Puneet Gupta, Vice Chair of Computer Engineering

Date: December 3, 2019

Re: Adding Math 170E to the CS Department Majors and minor

We propose to add Mathematics 170E as an additional probability option for the Computer Science, Computer Engineering, Computer Science and Engineering majors and the Bioinformatics minor. We request that this change takes effect as soon as possible.

This will not affect the number of total units for any of these programs nor will it result in a new catalog.

The current requirement is to take one course from Civil and Environmental Engineering 110, Electrical and Computer Engineering 131A, Mathematics 170A, or Statistics 100A. We propose to add Math 170E to this list to mirror the changes that have been made within the Mathematics department.

The curriculum of Math 170E centers on upper-division probability, creating a two-tier system between this course and Math 170A. Math 170E is a service course for students who have some knowledge of calculus, but not trained in mathematical analysis. This will serve as an alternative for Math 170A, which has a curriculum based on the assumption that the students have knowledge of basic analysis.

In addition to adding it to the curriculum, we propose revisions to CS courses that currently require a probability elective as a prerequisite: CS CM121, CS CM122, CS CM124, CS 112, CS 168, CS M146, and CS M119. Math 170E will provide students with a wider variety of courses to take to complete the CS, CE, or CS&E major or the Bioinformatics minor.

We appreciate your kind consideration.

