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Teaching mathematics to computer science students.

Many courses in Computer Science curricula require mathematics and some sources rely heavily on mathematics (both undergraduate and graduate courses). Teaching mathematics to students with major in non-mathematics could be challenging. In my talk I will share my experience. CS students especially undergraduate students concern about motivation of mathematical concepts. One possible solution of this problem is to involve computational approach, for example, real life computational problems. I find it interesting to see how the student opinion is changing and their grasp of mathematical concepts is improving with this approach. It is not always easy to implement such an approach as it requires extra time in class and additional preparation. This approach has benefits for teaching undergraduate class. However, teaching graduate classes relying on mathematics, for example Computational Geometry course, may benefit from a different approach. The algorithms in these courses already involve some mathematics, especially the proofs. It is important to emphasize how mathematics can help not only in analysis of algorithms but also in their development. (Received September 17, 2014)