

1035-Z1-1283

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In King's College, a discrete math course is designed for the sophomores or juniors in the mathematics major and the computer science major. I believe this course serves a dual role of both introducing new mathematical materials and training the students as young mathematicians/computer scientists.

Since the concepts and notations from discrete mathematics can be used to study problems in algorithms and programming languages, discrete mathematics is an important component of computational mathematics and computer science. As an instructor, I found my students had developed some abilities of proving certain abstract math structures and they were able to write and make mathematical arguments by participating in the programs developed by my colleagues. Therefore one of my goals to teach this course is to enhance their abilities of critical thinking and independent learning.

In this talk, I will present the way I adopted to teach discrete mathematics. In particular, it will address how I taught mathematical induction and recurrence relation. I will also discuss the division of integers if time permits. (Received September 19, 2007)