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We are interested in the relationships between high school math courses and entry level college math courses. We started with a study of about 3000 students from 34 high schools who matriculated at Michigan State U., by comparing their senior-year math courses taken and grades in those courses with standardized test scores and math courses taken at MSU and grades in those courses. We are now expanding to look at 8 - 12th grade math courses and several other universities. We shall summarize the results of our initial study, which includes important findings about the relationships between certain courses (e.g, calculus, trigonometry, and AP statistics, in particular) and students' success in college mathematics classes. We shall also present preliminary results from our expanded study. (Received September 20, 2006)