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There is a myth that students need to have a lot of math to do research. This is false. For the last five summers there has been a Pre-REU for students who have at least two semesters of calculus. This is one part of Texas A&M's Mentoring through Critical Transition Points program as part of an NSF grant. In this part students learn about signal and image processing and work in groups, first to work through a loosely guided project, and then to expand it to their own work. This talk will contain a discussion of the results, both mathematical and educational, including the effect on the students as they progressed through their education and went to graduate school or work. (Received July 28, 2012)