

1116-P1-1074 **B. Dean Gooch*** (dgooch@santarosa.edu), Dean Gooch, Mathematics/Shuhaw Hall, Santa Rosa Junior College, 1501 Mendocino Avenue, Santa Rosa, CA 95401. *Teaching Mathematical Reasoning and Proofs in the Two-Year College Setting.*

I teach at a two-year college in Northern California. I have seen that more and more, my students who wish to major in mathematics need a solid course in mathematical reasoning and proofs to prepare them for upper division mathematics. I have crafted such a course and will talk about the very preliminary results so far. I will also talk about the problems with students taking only a less rigorous discrete mathematics course and what kind of experiences some of these students have had at their transfer institutions. I posit that the mathematical reasoning and proofs course is needed as a means of recruiting more students into mathematics. I will also discuss the difficulties with introducing such a course to a two-year college environment in which such courses are virtually unknown and the some of the problems with transferability to four-year institutions. (Received September 16, 2015)