Use the attached dataset to complete the following analyses:

We are studying the Supplemental Instruction program on campus (called PASS) to see if it helps students increase their final course grades. The attached dataset has their final course GPA (i.e. 4.0 = A; 3.0 = B; coded on a plus minus system). Next, we have coded their attendance in SI session as none, very few (1-3 sessions), medium (3-10 sessions), and weekly (10+ sessions).

What is the overall effect size (R2 or n2)? How big is the effect size?

What is the effect size for weekly compared to no sessions (Cohen’s *d*) – don’t forget about the excel sheet on BBoard. How big is the effect size?

Calculate the number of subjects needed given the following adjustment to our SI study:

1. 5 groups – no sessions, 1-3 sessions, 3-10 sessions, 10-20 sessions, 21+ sessions
2. Alpha and beta at normal rates
3. Effect size is medium