## Additional Empirical Exercise 5.3

Using the data set CollegeDistance described in Empirical Exercise AEE4.3, run a regression of years of completed education (ED) on distance to the nearest college (Dist) and carry out the following exercises.
a. Is the estimated regression slope coefficient statistically significant? That is, can you reject the null hypothesis $H_{0}: \beta_{1}=0$ versus a two-sided alternative at the $10 \%, 5 \%$, or $1 \%$ significance level? What is the $p$-value associated with coefficient's $t$-statistic?
b. Construct a $95 \%$ confidence interval for the slope coefficient.
c. Run the regression using data only on females and repeat (b).
d. Run the regression using data only on males and repeat (b).
e. Is the effect of distance on completed years of education different for men than for women? (Hint: See Exercise 5.15.)

