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### Additional Empirical Exercise 6.1

Using the data set **TeachingRatings** described in Empirical Exercise AEE4.2, carry out the following exercises.

- a. Run a regression of *Course\_Eval* on *Beauty*. What is the estimated slope?
- b. Run a regression of *Course\_Eval* on *Beauty*, including some additional variables to control for the type of course and professor characteristics. In particular, include as additional regressors *Intro*, *OneCredit*, *Female*, *Minority*, and *NNEnglish*. What is the estimated effect of *Beauty* on *Course\_Eval*? Does the regression in (a) suffer from important omitted variable bias?
- c. Estimate the coefficient on *Beauty* for the multiple regression model in (b) using the three-step process in Appendix 6.3 (the Frisch–Waugh theorem). Verify that the three-step process yields the same estimated coefficient for *Beauty* as that obtained in (b).
- d. Professor Smith is a black male with average beauty and is a native English speaker. He teaches a three-credit upper-division course. Predict Professor Smith's course evaluation.