

## Lesson Overview

A regression equation that depicts the relationship between one continuous response variable and a continuous predictor variable is called a simple linear regression. In practice, however, simple linear regression is often inadequate. To increase the accuracy of the estimate and to model relationships that account for the presence of other predictor variables, you can use more than one predictor variable to estimate the response variable. In other words, you use multiple linear regression. In this lesson, you start by reviewing the concepts of general linear models. Then you learn to build a multiple linear regression model, fit a polynomial regression model, and model the nonlinear relationship between a predictor variable and the response by using the spline effect.