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Judith Canner* (jcanner@csumb.edu), 100 Campus Center, Seaside, CA 93955, and **Jon Detka**. *Teaching Introductory Statistics Concepts using Resampling Methods in R*.

The use of R programming in an undergraduate Statistics course is becoming more common. There is also a movement to incorporate resampling and randomization methods into Statistics courses as a method to help students gain a deeper understanding of difficult concepts. The success of incorporating R programming into an undergraduate Applied Statistics course at California State University, Monterey Bay has motivated us to incorporate resampling techniques using R into the course curriculum as well. We will discuss our approach to designing lecture materials in conjunction with in-class activities and lab assignments to demonstrate basic concepts of Statistics using resampling. These concepts include sampling distributions, confidence intervals and hypothesis testing. We will discuss different approaches to teaching and structuring resampling methods in R as well as how these methods shape a student's understanding of basic Statistics concepts. Activity and assignment examples will be demonstrated and discussed within the context of an Applied Statistics course with a Calculus I pre-requisite. (Received September 24, 2012)