

WEST Inc. Computer Intensive Statistics Course

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Location: All workshops offered by WEST Inc. can be arranged for your site or at the Hilton Conference Center in Laramie, Wyoming

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Dates: Flexible. At least 1 – 3 month lead time is generally required.

WEST Inc. has offered this course many times in the past in countries around the world, lasting from three to five days. It is based on Dr Manly's book Randomization, Bootstrap and Monte Carlo Methods in Biology, 3rd Edition (Chapman & Hall/CRC, 2007). Participants will learn the needed background for using the computer-intensive methods of randomization, bootstrap and Monte Carlo methods, and will use these methods to analyze real data, including data brought to the workshop by the participants themselves. The emphasis will be on the analysis of biological data, but the methods covered in the workshop can be used in any area of application. For doing calculations use will be made of Resampling Stats for Excel and a number of special purpose Windows programs written by Dr Manly.

The topics covered by the five day course are:

- *What are randomization, jackknife, bootstrap and Monte Carlo methods?
- *One and two sample tests, analysis of variance and regression
- *Distance matrix methods with spatial and other data
- *Other methods for spatial data
- *Time series analyses
- *Multivariate methods
- *Non-standard data
- *Bayesian methods

A three day course is also available with some of these topics covered in less detail.

For a price quote, contact Dr. Bryan Manly (bmanly@west-inc.com).