

## Statistics Assignments Using Excel<sup>®</sup> Assignment #3: Measures of Central Tendency

Final exam scores from two different biology classes:

<u>Class A</u>	<u>Class B</u>
91	72
89	80
87	72
75	70
86	77
77	64
85	100
92	69
84	83
77	93
79	98
66	73
90	65
84	99
81	84
72	82
92	78
75	68
81	81
79	74

- 1) Compute the mean, median, and mode exam score for each class using Excel<sup>®</sup> spreadsheet functions (AVERAGE, MEDIAN, MODE).
- 2) Double-check your answers using some other technique (e.g., creating your own formula for the mean, using scratch paper to double check the median and mode).
- 3) Insert a textbox into your spreadsheet, responding to the following questions:  
*Which class did better? How do you know?*  
*Are the data skewed? How so? How do you know?*  
*Did you double-check your answers and notice anything peculiar? Explain.*
- 4) Do a final save and submit your work.

Author contact and copyright information:

Michael J. Tagler, Ph.D., Department of Psychological Science, Ball State University, Muncie, IN 47304, [mjtagler@bsu.edu](mailto:mjtagler@bsu.edu)  
Copyright 2010 by Michael J. Tagler. All rights reserved. You may reproduce multiple copies of this material for your own personal use, including use in your classes and/or sharing with individual colleagues as long as the author's name and institution and the Office of Teaching Resources in Psychology heading or other identifying information appear on the copied document. No other permission is implied or granted to print, copy, reproduce, or distribute additional copies of this material. Anyone who wishes to produce copies for purposes other than those specified above must obtain the permission of the author.  
Microsoft Excel is a trademark of the Microsoft group of companies.

The following textbook contains detailed instructions for using spreadsheets in an introductory statistics class:  
Tagler, M. J. (2009). *Understanding basic statistics with spreadsheets*. New York, NY: Pearson Custom.