

# QUANTITATIVE ANALYSIS I

Public Syllabus

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## TEXTS:

(LSKB) Levine, Stephan, et al. Statistics for Managers Using Microsoft Excel. Princeton, NJ: Prentice Hall, 2005, ISBN 0-13-144054-3.

### Supplemental Text (Recommended, but NOT Required):

(W) Weiss, Neil A. Elementary Statistics. 6<sup>th</sup> Edition (New York: Addison Wesley, 2004) ISBN: 0-201771306.

(SS) Spiegel, Murray R and Stephens, Larry J. Statistics. Schaum Outlines. (New York: McGraw-Hill, 1999) ISBN: 0-07-060281-6

## COMPETENCIES TO BE DEMONSTRATED AS A CONSEQUENCE OF TAKING THIS COURSE: GOV 601 –QUANTITATIVE ANALYSIS FOR GOVERNMENT

- ✓ Computational skill in the use of statistical software: EXCEL;
- ✓ Statistical literacy in applied mathematical statistics; and,
- ✓ Ability to apply a wide range of statistical procedures to a selected topic of specialization

This course is uniquely designed to meet the quantitative requirements for public administration/public management; homeland security and related concentrations in the school of government. The statistical procedures will have as their backdrop the topics that pertain to the above concentrations.

Mastery of this course will depend much upon your understanding of statistical terminology and computational procedure. You must learn to read and speak mathematically. One of the unique elements to this course in quantitative methods will be taught as a language. GOV 601 has as its goal your becoming conversant in describing the nature of reality using mathematical tools. In many respects, this Quantitative Analysis I is analogous to first grade of elementary school in this regard where you began to put words together, writing sentences, telling and retelling stories which were the consequence of having heard earlier stories, and the learning of numbers in Kindergarten. And, just as in the first grade, you will have to remember ---recognizing shapes, your alphabet, and how to count that was the essence of your kindergarten experience. For Quantitative Analysis I your high school and/or college mathematics, especially algebra will be appropriate for you to review in preparation for this course.