

# Statistics

## **STAT S-110. Introduction to Probability (CRN: 31483)**

*Herman Chernoff PhD, Professor of Statistics, Emeritus, Harvard University*

A first course in probability pointed toward applications, for students with some calculus. Models include the normal, binomial, exponential, Poisson, and gamma distributions. Topics include expectation, independence, conditioning, generating functions, joint distribution and density functions, and limit laws.

## **STAT S-100. Introduction to Quantitative Methods (CRN: 30236)**

*Willis L. Davis PhD, Associate of the Department of Statistics, Harvard University*

Basic ideas and concepts of statistics and statistical thinking are introduced, explained, and connected with contemporary applications of statistical methods. Course topics will include design of experiments, descriptive statistics, correlation and regression, probability, chance variability, sampling, estimation, and tests of significance. Knowledge of a computing system is not a course prerequisite; however, MINITAB will be used to illustrate some of the ideas and concepts discussed.