POS 3713 Fall 1999
Review Sheet for Midterm Exam #1

General Information: The exam will be a combination of multiple choice and short answer questions. It will cover Mannheim and Rich, Chapters 1-8, 12, 14-15, and Healey, Chapter 1.

Review Terms
Theory
Induction
Deduction
Operationalization
Data
Generalizability
Reactivity
Concepts
Research Question
Propositions
Hypotheses
Assumptions
Covariation
Causal Relationship
Variables (Independent, Dependent, Intervening, Antecedent)
Spurious Relationship
Research Design
Alternative Rival Hypothesis
Controlled Experiments
Experimental Group
Control Group
Quasi-experiments (ex post facto, time series design, controlled time series design)
Regression toward the mean
Internal Validity
External Validity
Representative Sample
Population
Sample
Random Sample
Systematic Random Sample
Cluster or Multistage Random Area Sample
Stratified Sample
Quota Sample
Judgmental Sample
Homogeneity
Sampling Error
Level of Confidence (i.e., 95%)
Cross-sectional survey design

Longitudinal survey design (trend, cohort, and panel studies)
Open ended vs. closed ended survey questions
Response bias
Measurement
Variable
Indicator
Multidimensional Concept
Mutually exclusive and collectively exhausive
Working hypothesis
Discrete vs. Continuous Variables
Codebook
Measurement Error
Systematic error vs. random error
Validity (Pragmatic, External, Internal, Discriminant, Face)
Reliability
Statistic
Descriptive vs. Inferential Statistics
Aggregate Data (census, organizational statistics, sample surveys, publications' content, event data, judgmental data)
Ecological Fallacy
Coding

<u>Other Information to Review</u>
Criteria for theories to be useful
Components of a theory
Direction of theoretical relationships (positive or negative)
Sources of research questions
Organization of research articles
Types of research (exploratory, descriptive, explanatory)
Six elements of a research design
Experimental effect (differences between posttest and pretest scores)
Characteristics of an experiment
Factors that threaten internal and external validity
Factors that determine the appropriate sample size
Stages of survey research
Types of survey techniques (in person, mail in, phone)
Strengths and weaknesses of surveys (such as question wording problems)
Levels of measurement (nominal, ordinal, interval)
Causes of measurement error
Tests for reliability