

POS 3713 Spring 2000  
Review Sheet for Midterm Exam

General Information: The exam will be a combination of multiple choice and short answer/problem solving questions. It will cover Mannheim and Rich, Chapters 1-7, 12, 14-15, and Healey, Chapters 1-8.

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 exhaustive  
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

#### Other Information to Review

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