

## Review for Midterm

Below is a list of the important concepts and topics that may show up on the test, but remember, anything we've covered in class or in the assigned readings is fair game!

- I. Sociology as a Science, Theories of Sociology
  - a. Four common methods of "knowing"
  - b. Five errors associated with these methods
  - c. Ways sociologists avoid these errors
  - d. Four basic rules of social research
  - e. Theory and research
    - i. Levels of theory
    - ii. Inductive vs. deductive research
  
- II. Constructing a research project
  - a. Research question and five sources
  - b. Unit of analysis
    - i. Unit of observation/Informant
    - ii. The four types
  - c. Time in research
    - i. Cross-sectional
    - ii. Longitudinal (3 types)
  
- III. Causality
  - a. Variables, attributes
    - i. Ascribed vs. achieved
    - ii. Independent vs. dependent
  - b. Correlation
  - c. Hypothesis
  - d. Three criteria for causality
  - e. Different types of relationships
  
- IV. Measurement
  - a. Creating conceptual order
  - b. Concepts and conceptualization
    - i. Indicators and dimensions
  - c. Operationalization
    - i. Range of variation, variation between extremes/precision
    - ii. Exhaustive and mutually exclusive
  - d. Four levels of measurement
  - e. Reliability
    - i. Ways of assessing reliability
  - f. Validity
    - i. Ways of assessing validity
  - g. Scales and typologies

- V. Sampling
  - a. Why we sample
  - b. Basics terms of sampling
    - i. Sample
    - ii. Census
    - iii. Element
    - iv. Population
    - v. Study population
    - vi. Sampling frame
  - c. Probability sampling (EPSEM)
    - i. Statistic vs. parameter
    - ii. Probability theory and sampling distribution
  - d. Five ways of selecting nonprobability sample
  - e. Types of samples using sampling frame
    - i. Simple random sample
    - ii. Systematic sample
    - iii. Stratified sample
  - f. Multistage cluster sample