Fall 2012 Mid-Term Exam Study Guide

The test will be a combination of true-false and multiple-choice. The exam will be given during the first hour of class. If you are late you will have less time to complete it.   Anyone needing a make-up test will have to take a mostly short-essay oriented exam. To prepare for the test, please carefully review the overhead slides, and check with the textbooks for any terms that you will need more familiarity. The in-class slides are all available at my website at: www.sjsu/people/fred.prochaska

Be familiar with the following terms and concepts:

Basic Terms such as: Scientific Method, Hypotheses, Inductive vs. Deductive Research

Research Designs – including Exploratory, Descriptive, Explanatory, and Evaluation

Dependent and Independent Variables   Constants   Control Variables

Human Subjects Protections and Protecting Client Confidentiality

Ethical Considerations, Informed Consent, and Human Subjects Review Process - IRB's

Cross-Sectional vs. Longitudinal Research   Panel, Trend, and Pilot Studies

Reliability and Validity   Internal and External Validity   Triangulation

Threats to Internal Validity–including history, maturation, testing, instrumentation, & mortality

Social Desirability   Cultural Bias   Sampling Bias

Measurement Options – Verbal, Observation, Surveys, Archival Records, etc.

Categories of Measurement – Nominal, Ordinal, Interval, and Ratio

Ways to Reduce Measurement Errors   Systematic vs. Random Error

Study Population and Sampling Frame   Random vs. Non-Random Samples

Correlations - Positive, Negative, and Ranges from -1.0 to +1.0

Scales, including Likert-type

Sampling Techniques including simple random, purposive, cluster vs. snowball, quota, convenience, and stratified

Experimental, Pre-Experimental, and Quasi-Experimental Designs, Control Groups

Single System Designs   Baseline Measures   Target Problem Scaling