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