Tutorial Concept Sheet Week 02 (Covers Lectures 1, 2 and part of 3)

Approaches to Knowledge

Authority Deduction Intuition Scientific Method

Fundamental Goals of Science

Description Prediction Control

Types of Experimentation

Manipulative ("True Experimental") Non-Manipulative ("Quasi-Experimental," "Observational", "Correlational")

Types of Variables

Independent Dependent

Operationalization

Operational Definition

Scientific Experimentation

Pilot Study Paradigmatic Tunnel Vision

Threats to Validity Subject Self-Selection and Selection Biases Experimenter Effects

Types of Controls Single Blind (Placebo) Double Blind

Population vs. Sample

Parameter vs. Statistic

Descriptive vs. Inferential Statistics