Important: This sheet provides guidelines for your exam preparation. This is not an exhaustive list of the topics covered on Exam 3 but it should help focus your attention on the major issues.

Exam Format and Coverage: 40 Questions. Each question is worth 2.5 points for a total of 100 points. Exam 3 will be administered in class on 29 April.

Textbook Chapters: 11-15, 19  
Lectures: 18-24  
Labs: 8 to 10

Test Preparation Guidelines: Read the assigned chapters and focus on mastering key terms and major concepts. You will probably receive a low score on the exam if you do not read the text! Center your preparation of lecture material on the topics highlighted in the review sections of each lecture.

Major Lecture Topics

Internal Validity & Experiments
Two Disciplines of Scientific Psychology
Three Conditions for Causality
Correlation and Causality
Definition of Internal Validity (AKA: Local Molar Causal Validity)
Classic Threats to Internal Validity (see pages 245 to 252)
Experimental Designs (see pages 254 to 264)
Video Games and Violence Example
Strengths and Limitations of Experiments (see pages 264 to 268)
Types of Laboratory Studies (Impact, Judgment, Observational Studies)
Judgment Study Example: Landy and Sigall (1974) *Know why this is a Factorial Design*

Quasi-Experiments, Program Evaluation, and Applied Research
Definitions of Quasi-Experiments, Program Evaluation, and Applied Research
Quasi-Experimental Designs (see pages 311 to 324)
Threats to Internal Validity in Quasi-Experiments
Summative versus Formative Evaluation
Wilson & Lipsey’s (1993) Meta-Analytic Summary
Evaluation of Abstinence Programs
Interventions that Harm
Iatrogenic Effects in the Cambridge-Somerville Youth Study and the Adolescent Transitions Program (Dishion et al., 1999)
Regression to the Mean (see pages 324 to 329)
Palmgreen et al. (2001) Example (see pages 310 to 313)

Observational Research
Definitions, Strengths, and Limitations
Examples: Littering and Receptivity to Sexual Offers
Steps for Conducting a Systematic Observation (see pages 375 to 380)
Physical Traces
**Archival Research**
Definitions, Strengths, and Limitations
Example Issue: Association between Heat and Aggression
Example: *The Home Field Disadvantage in Sports Championships*

**Other Topics**
Major Themes of PSY 395 (Lecture 24)
Labs 8 to 10 (Especially: t-tests, ANOVA, correlation, regression, effect sizes for two group comparisons, null hypothesis significance testing, item analysis)