Meta-Analysis (BE9061C)

Instructor:  Jeff Welge, Ph.D.
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Time & Place:  Tuesday 11-1, Thursday 11-12, MSB E602

Text:  None required (but see Blackboard for recommendations)

Evaluation:  90% of grade based on final project. Conduct and report a small meta-
             analysis on a topic of your choosing but subject to my approval. 80% of grade will be
             based on completeness of reporting (inclusion of points to be presented in class), 10%
             will be on discussion of general conceptual issues in meta-analysis. Attendance counts
             for 10%

Course Outline:

History of Meta-Analysis

Criticisms of Meta-Analysis

Searching and Evaluating the Literature

Computation of Effect Sizes

Pooling Effect Sizes

   I:  Fixed effect

   II: Random effects

   III: Bayesian

Sensitivity to Publication Bias

Meta-Regression

Control Rate Meta-Regression

Network Meta-Analysis

Individual Patient Data (IPD) Meta-Analysis
Special Issues
   Dependent effect sizes
   Diagnostic Tests