**“Can Nonrandomized Experiments Yield Accurate Answers? A Randomized Experiment Comparing Random to Nonrandom Assignment”**

**(Shadish, Clark & Steiner, 2008)**

**Variable List**

|  |  |  |
| --- | --- | --- |
| **Variable** | **Variable Name** | **Comments** |
| Vocabulary Pretest | vocabpre | 36-item Vocabulary Test II  (Educational Testing Service, 1962, 1993) |
| Mathematics Pretest | mathpre | 15-item Arithmetic Aptitude Test (Educational Testing Service, 1962, 1993) |
| Number of Prior Mathematics Courses | numbmath |  |
| Like Mathematics | likemath |  |
| Like Literature | likelit |  |
| Preferring Literature over Mathematics | preflit |  |
| Extroversion (big 5 personality factors) | pextra | (Goldberg, 1999) |
| Agreeableness (big 5) | pagree | (Goldberg, 1999) |
| Conscientiousness (big 5) | pconsc | (Goldberg, 1999) |
| Emotionality (big 5) | pemot | (Goldberg, 1999) |
| Intellect/Imagination (big 5) | pintell | (Goldberg, 1999) |
| Mathematics Anxiety Rating Scale | mars | (Faust, Ashcraft & Fleck, 1996) |
| Beck depression scale | beck | (Beck & Beck, 1972) |
| Race/Ethnicity: Caucasian (dummy) | cauc |  |
| Race/Ethnicity: African-American (dummy) | afram |  |
| Race/Ethnicity: Other ethnicity (dummy) | other |  |
| Age | age |  |
| Sex: male (dummy) | male |  |
| Marital status: married (dummy) | married |  |
| Mother’s Education | momdegr | unreliable |
| Father’s Education | daddegr | unreliable |
| Parents income | parents | unreliable |
| College Credit Hours | credit |  |
| Math-Intensive Major | majormi |  |
| ACT Comprehensive Score | actcomp |  |
| High School GPA | hsgpaar |  |
| College GPA | collgpaa |  |
| Vocabulary posttest | vocaball | measured after treatment |
| Mathematics posttest | mathall | measured after treatment |
| Treatment indicator | vm |  |
| Experiment indicator | rq |  |