Appendix 3: Sample Mplus Syntax for Example #1

TITLE: PIAAC in Mplus - SEM example #1;

!Note: "!" indicates a comment
!To obtain model fit indices make the following syntax modifications:
!Replace FILE IS datalist01.txt with FILE IS dataset01.csv
!Remove or comment out TYPE = IMPUTATION
!Replace TYPE IS COMPLEX with TYPE IS GENERAL
!Remove REPSE IS JACKKNIFE2
!Use ESTIMATOR IS MLR where indicated below

DATA: FILE IS datalist01.txt; !See Figure 1 & 2 for an example;
TYPE IS IMPUTATION;

!List the variables exactly as shown in the file Dataset01WithNames ;
VARIABLE: NAMES ARE
SPFWT0-SPFWT80
MtL01 MtL02 MtL03 MtL04
agecat12 female white black hisp others
college srh PVLIT;

USEVARIABLES
MtL01 MtL02 MtL03 MtL04
agecat12 female
college srh PVLIT;

!Specify missing values;
MISSING ARE ALL(-9999);

!Specify the sampling and replicate weights;
WEIGHT IS SPFWT0;

REPWEIGHT IS SPFWT1-SPFWT80; !Remove or comment out for model fit indices;

ANALYSIS:
TYPE IS COMPLEX;
REPSE IS JACKKNIFE2; !Re-sampling method for the US PIAAC data;
!ESTIMATOR IS MLR !Use to obtain fit indices

MODEL:
!Motivation to learn (MtL) latent variable;
MtL BY MtL01@1 MtL02 MtL03 MtL04;
Mtl On PVLIT agecat12 female college srh;

OUTPUT: tech1 tech4 CINTERVAL STDYX;