**Course Description**

This is a 1-credit applied course aimed to introduce students to the concepts of exploratory factor analysis.

**Recommended for students who will be conducting research or dissertations using surveys.** Can be taken concurrently with EDUC 8130.

The course will be offered in a single day. Instruction will take place in a computer lab on the Foggy Bottom campus. Students will receive instruction and gain hands-on experience by completing in-class exercises using SPSS software. Students will complete a project outside of class.

This course will cover **applied** topics related to Exploratory Factor Analysis:

- Development of models for practical applications
- Principal Components Analysis (PCA)
- Exploratory Factor Analysis (EFA)
- PCA vs EFA
- Assumptions
- Treatment of factor extraction
- Methods to determining # of factors
- Rotation
- Factor scores
- Factor interpretation
- Validity & reliability of factors
- Writing results